

# User Manual TravelBus 2-in-1 Analyzer (Protocol & Logic)



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# **Chapter 1 Installation**

### Hardware

Connect the TravelBus to the PC with the USB 3.0 cable in the TravelBus kit.



### Software

NOTE: Since 2024, we will not provide x86(32 bit) software, only x64(64 bit) software. Whoever needs x86 software, please contact us.

Please visit the official website of Acute Technology Inc., go to the Download page->Software, and then select *[Logic Analyzer ] TravelBus series* to download the TBA series. After completion of installation, the "start icon" of TBA series will appear on the desktop and the program set. User can select either one to start TBA

(<sup>The set to enter logic Analyzer or protocol Analyzer.</sup>). After starting the software, the main menu screen will show up. User can choose



🚔 Acute TravelBus	-	×
Protocol Analyzer		
슬 Open File		
Recent Files		 _

**Open File...** will open the old file (.TBW).

## SDK

We provide SDK for user to control the software and hardware behavior.

 Software behavior (need to keep the software executing) : User can monitor the software behavior by AqLAVISA Manager. Please check our official GitHub website: https://github.com/acute-technology-inc/aqvisa-grpc. Or find the label: Download→SDK(DLL)→[Logic Analyzer]AqLAVISA SDK, in our official website. Or contact us with e-mail.



🚔 AqLAVISA Manag	jer				×
Host					
TCP Server	○ gRPC				Start
IP:	192.168.1.2	)5	Port:	5025	
Command					
Template	*STB?				•
Command	*STB?				-
	Query				
					Clear
Timestam	p	Command		Return	
Command / Retur	n Data				

 Hardware behavior(DO NOT need to keep the software executing): Please find the label, Download->SDK(DLL)-> [Logic Analyzer] TravelBus SDK ; Or contact us with e-mail. Please note it, there has no any decode processing, only capture data and save.

## gRPC

We provide gRPC for user to remote control our device. Please check our official GitHub website: <u>https://github.com/acute-technology-inc/aqvisa-grpc</u>. Or search: "aqvisa-grpc". Or contact us with e-mail.



# **Chapter 2 Operations**

# **Protocol Analyzer**

## **Main Window**



- 1. **Toolbar** includes Protocol, Waveform, Run, Search and Save to text which format is .csv or .txt.
- 2. **Report Window** displays real-time protocol data.
- 3. **Waveform** displays the waveforms only when the Waveform option is checked.
- 4. **Status Bar** shows if the TravelBus is connected to the PC, what protocol, time captured/available time to capture, ....
- 5. **Detail/Navigator/Filter** shows the protocol data detail and is able to filter those data.
- 6. **Cursors** display the time/frequency difference between cursors.



	.nnn.	
<b>Protocol Select (</b>	Bus	

Protocol Select		×
10Base-T1S BiSS-C CAN FD DALI DP-AUX HID Over I2C 12C 12S LIN MDIO MIPI I3C Modiwo	Channel ● I2C Port 2 ● LA Port SCK 0 SDA 1 ↓ 0 2 4 6 8 0 2 4 ↓ ↓ SCL	12C Ver. 2.1
PMBus ProfiBus PVWM RS232/422/485 SMBus SPI USB 1.1 USB PD	SCK [0] 3	KHz
	○ Default	× Cancel

- 1. Select different protocol.
- 2. Channel:

Choose either LA ports or Dedicated ports. LA ports (channel 0~15) are used for normal LA usage; for more dedicated ports information, please check **Dedicated Channel Description.** 

3. Waveform :

The TravelBus auto-detects the signal frequency and displays the real-time waveform.

- 4. **Options** : Choose the address mode.
- 5. **Threshold** : The threshold is provided by default for each protocol or can be set manually.



# Memory Usage (

✓ Repetitive Times 1 2	
Stop Conditions	
Maximum PC RAM limit 2	
1%	
Available Memory:	130 MB
Number of Data Lines	
3 O Maximum 17,000,000	
Customize 1000	
Customize 10000	
Customize	

- 1. Repetitive Times: If it was checked, user can set the number of times to capture; after the number of times is completed, all the retrieved data would be saved.
- 2. RAM limit: User can set the limitation of memory usage. When the memory is full, stop capturing.
- Number of Data Lines: If it was checked, user can set the number of data lines.
   When the number of lines reach the user setting, stop capturing.



## Stack with the DSO

The TravelBus can be stacked with Acute DSO as MSO, but only in Logical Analysis mode.

In Protocol Analysis Mode, user must turn on the Show Waveforms and capture data before convert Trigger and Decode settings to Logical Analysis Mode for stacking with the oscilloscope. After extracting data, select Convert to Logical Analysis and

Stack Oscilloscope ( ) in the File field of the toolbar to convert all settings to Logical Analysis mode, see Stacking Oscilloscopes in Logical Analysis Mode for details. Alternatively, you can keep only the settings and data and convert them to

Logical Analysis mode by clicking Convert to Logical Analysis (

#### Example:

Click Waveform to store the protocol data with waveform.



Choose I<sup>2</sup>C for protocol settings, click OK by default settings or reset manually.

Protocol Select		×
10Base-T1S BiSS-C CAN FD DALI DP-AUX HID Over I2C I2S LIN MDIO MIPI I3C Modbus PMBus ProfiBus PVM RS232/422/485 SMBus SPI USB 1.1 USB PD	Chanel       100 0000000000000000000000000000000000	
	Threshold       1.60V     Quick Setup       Operault     V OK	





🚢 Acute	e TravelBus	(Ver:1.8.23)	)						
File	Capture	Cursor							
Conr	nect Pr	MA. Bus	onfiguration	Waveform,	Run		earch All Field		1 TextLab
L	1				$\sim$	1			l
	Timestam	np (h:m:s	.ms.us.ns	dur)	Status		Address (7b)	RW	Data
10523	1	5:50:26.	000.106.12	0 196.2	Start		46	Wr	21* 3A
10524	1	5:50:26.	000.783.20	0 677.0	Start		12	Wr	10 20 30
10525	1	5:50:26.	001.161.94	0 378.7	Start		3F	Wr	00
10526	1	5:50:26.	001.358.20	0 196.2	Start		46	Wr	21* 3A
10527	1	5:50:26.	002.035.28	0 677.0	Start		12	Wr	10 20 30
10528	1	5:50:26.	002.414.04	0 378.7	Start		ЗF	Wr	00
10529	1	5:50:26.	002.610.28	0 196.2	Start		46	Wr	21* 3A
10530	1	5:50:26.	003.287.38	0 677.1	Start		12	Wr	
10531	1	5:50:26.	003.376.16	0 088.7	Repeat S	tart	08	Wr	
10532	1	5:50:26.	003.466.16	0 090.0	Start		10	Wr	
10533	1	5:50:26.	003.556.16	0 090.0	Repeat S	tart	18	Wr	
10534	1	5:50:26.	003.666.12	0 109.9	Start		3F	Wr	00
10535	1	5:50:26.	003.862.38	0 196.2	Start		46	Wr	
10536	1	5:50:26.	003.948.66	0 086.2	Repeat S	tart	10*	Rd	3A
10537	1	5:50:26.	004.539.46	0 590.8	Start		12	Wr	10 20 30
10538	1	5:50:26.	004.918.22	0 378.7	Start		3F	Wr	
10539	1	5:50:26.	005.004.50	0 086.2	Repeat S	tart	00	Wr	
10540	1	5:50:26.	005.114.46	0 109.9	Start		46	Wr	21* 3A
10541	1	5:50:26.	005.791.54	0 677.0	Start		12	Wr	10 20 30
10542	1	5:50:26.	006.170.30	0 378.7	Start		3F	Wr	00
10543	1	5:50:26.	006.366.56	0 196.2	Start		46	Wr	21* 3A
Wavefor	rm				•				
Time/Div	/= 100 us 🛓		₽ ¢	44.56	4ms	→ <mark>A</mark>	~		469.2us
				46.4 ms	46.5 m	ns I I	46.6 ms	46.7 ms	46.8 ms
			21	ЗÁ	A				
4 Deer	odo	CIR-0		nnninnn			402.24		
	oue	JUK-0					403.34	us	
	I	DATA-1		30 u   30	)u		393.34	us	

User can stack Oscilloscopes ( ) in the File field of the Toolbar to convert all

settings to Logical Analysis mode, see Stacking Oscilloscopes in Logical Analysis Mode for instructions.



Acute Inavelous (Ver.1.0.2.5)	
File Capture Cursor	
Image: Open     Image: Save As     Image: Save All     I	
Timestamp (h:m:s.ms.us.ns dur) Status Address(7b) RW Data	
10523 15:50:26.000.106.120 196.2 Start 46 Wr 21* 3A	
10524 15:50:26.000.783.200 677.0 Start 12 Wr 10 20 30	
10525 15:50:26.001.161.940 378.7 Start 3F Wr 00	
10526 15:50:26.001.358.200 196.2 Start 46 Wr 21* 3A	

## Show Waveforms / Hide Waveforms



If User select "Show Waveforms", the device will capture the waveform data. It requires more device memory. Please decide show or hide waveform before capture.

When "Show Waveforms" is enabled, the waveform area will provide the following functions:

1. Bus Decode 🧲

Press this button to refresh the bus decode.

2. Stop the bus decode 🐺

This button can stop the bus decode right away.

- 3. Add User Notes
- 4. Waveform zoom in/out 🔎 🔎



User can use these buttons or mouse wheel to zoom in or out the waveforms.

## Search



Search function can search data in the report window.



1. Enter search criteria in the text field.

A mark will appear in front of each row meeting the search criteria.

- 2. Search the previous / next piece of data.
- Specify all fields or target fields to search.
   Specify fields to narrow the search range, to search faster.

It will show the total number of packets found with green

background. If no data is found, it will show an Search text 'CMD99' not found! orange background.

## To bottom



When viewing data, user press this button to move directly to the last end of data if user press this button while the device is capturing data, the most up to data will be displayed.

#### Window



Select to enable/disable multiple display report, such as: Report List, Show Both Report...etc.

📔 Report List				
👖 Show Both	Report			
🔣 Show Show	v Main Report R	leport		
Show Show	v Secondary Re	port Report		
Search List	Trigger List	Statistics List	Bookmark List	
Statistics List		2	3	
	1 / 1650	∕⊻ ⊒ ⊒ 0		

- 1. Select different display list.
- 2. Use the control buttons to move the current position, or input row number to jump to specified row.



3. Use the control buttons to add /remove selected row to Bookmark List. For detailed usage steps, please refer to Appendix 1: Report List Advanced Instructions.

## Saved as text file



Contents of the report may be saved as .TXT or .CSV.

Save to TXT/CSV	×
Total number of lines: 1399	
<ul> <li>Save all in one file</li> <li>Save each file within 32000</li> <li>Save selected range</li> </ul>	lines
Select Row Number	
From 1	
To 139	99
Select Column Number	
From 1	
То б	
Advance report	
Use nanosecond(ns) as duration unit	
Splitting timestamp into separate times	stamp and duration columns
Maximum saving byte per column 64	byte(s)
Save Location	
.CSV	-
	✓ Save X Cancel

Save options:

- 1. You can select to save the data as a file or according to the number of rows.
- 2. Advanced reports: If it was checkd, the detailed data would be saved.
- Splitting timestamp into separate timestamp and duration columns: If it was checked, the timestamp column would be separated into to two columns, timestamp and duration time. (It was combined together by default).
- 4. Maximum saving byte per column: Set the limitation of byte numbers in one column.



## **Detail window**

Many protocols contain a large number of numerical data, it is not suitable to display in the report window at one time, so User can click the Data column of the report window with the mouse first, and the data will be displayed in the detail window.

Save to text Stack DSO	
Detail	0
CS: 00 (Single I/O) OP Code: SET_CONFIGURATION(22) Address: 0008	
Data: OF 00 40 88	
Response: ACCEPT (08)	
Status: 0107	
(Bit 8) FLASH_C_FREE	
(Bit 2) VWIRE_FREE	
(Bit 1) NP_FREE	
(Bit 0) PC_FREE	
General Capabilities and Configu CRC Checking Enable 0	rations
Response Modifier Enable 0 Alert Mode 0	
Detail Navigator Hide Items	

## **Statistics window**

According to protocols' different characteristics, statistics are made to understand the entire transmission situation, User may also click on the statistic trace to summarize all records of the selected trace into the statistic list window.

iscription		Txns	Bytes	
R	esponse CRC Error	0		
W	ait Count Error	0		
Trigge	er Count	0		
Reset	t Count	0		
Perip	heral Channel	0		
VWire	e Channel	0		
OOB	Message Channel	0		
Flash	Access Channel	0		
Chan	nel Independent	11		
Resp	onse			
tatistics	Txns	Bytes		
PUT_VW	/I 0			
GET_VM	/I 0			



For detailed usage steps, please refer to Appendix 1: Report List Advanced Instructions.

## Hide Data window

Select item to hide certain data, click "Clear" to restore.

Save to text Stack DSO
Hide Items 🛛 🖉 🕷
7-bit Address (Hex):
□ Not
10-bit Address (Hex):
Not
Data (Hex, First at most 8 bytes after the Address, e.g., 1A 2B 3C):
Not
Address ACKed Address NACKed Read Write
Clear Apply
Detail Navigator Hide Items

# Stack external oscilloscope



Convert to Logic Analyzer to stack with DSO

The stack oscilloscope can only be enabled in the Logic Analyzer mode. If you want to enable the stack oscilloscope in the protocol Analyzer mode, you must first press the "Convert to Logic Analyzer and Stack Oscilloscope" button to switch to the Logic Analyzer mode to enable this function. It should be noted that you must open Show Waveforms in the Protocol Analyzer mode and capture the data/waveform to switch.

	Demo
~~°	Phase Delay
Stack DSO	0 ps 🚽



## Cursor

log Acute MSO (Ver:1.8.62)										
File	Captu	ire	Cursor							
	4	Del		P Have Ta	ſ					
Add C	Cursor	De	lete Cursor	Move To						

This function includes the cursor setting and the waveform search function matching the cursor.

But it can only be operated while the 'Show Waveform' function was turned on. Otherwise, user will see these buttons turn gray and disabled.

## Logic Analyzer

#### **Main Window**

🚢 Acute Trav	elBus (Ver.1.8.23)																										- 0	×
File Ca	Adv. Capt	ure Curs	Sample Rate	s)	Aemory 250MB	HT Thresh 1.6 V	old	Run	() Repeat						)		Den Joom J	Stack EXT DS0	Demo Phase 0 ps	Delay								
Time/Div= 20	10 us _		448.5us		. 3		5	00us		0	-	500us			500us	-	₽.											
Acquired: 16	18:25:142	U pe	200 02	40	J US	0.0	105	· · ·			· · · · · ·	1.79 Inc	1.3V Inc	1.0 ms			2 ms	· · · · · ·	2276	- m · *	suna III	2.0 m		2.79 mg		<u> </u>	3.275	
⊿ BUS_I20	CLK-0		403 34 us 393 34 us		12	10 50 u 70 l	20 15 80 u	30	3F 60 u 89	00	46 21 50 u		403.32 us 393.32 us		12 10 60 u	20 70 us 80 us	30	3F 60 u 117	00 4	8 21 50 u	ЗА		403.3	4 us 4 us	12	10 0 u 70 us	20 30 80 us	37
0 CLK	o																		mm						1000			
1 DATA	2		393.34 us			30 u 70 u	15 80 u	•][_	60 u 89	0.98 J	Eo.u		ic 1 (403.32s	ia)		70 us 80 u		60 u 117	.5 us	[e]			393.3	4 us	5	10 u 70 us	80 us	
L abel	Channel	1														5												
CH-00	Bus BUS_I2C(I20	), C	111 🛃 🎽																		Q	Search Al	II Fields		Text in	dudes		~ ^ V
1 1 2 1	mp (hh:mm:ss.ms 5:18:25.142	Status tart	Address(7b) Wr 12 Wr 3F	D0	D1 20	D2 30	D3	D4	D5 D	6 D7	ASCII		Information															-
3 1	5:18:25.143 5	tart	Wr 46	21	33	20					11							3	,									
5 1	5:18:25.144 S	tart	Wr 3F	00	20	50																						
6 1 7 1	5:18:25.144 S	tart	9r 46 9r 12	21	3A 20	30					1:																	
8 1	5:18:25.145. S	tart	Wr 3F	00		-																						
9 1	5:18:25.145 S 5:18:25.146 S	tart	Wr 46 Wr 12	21	3A 20	30					. 0																	
Counected] [S	I TBB30160022 (USB	3.0) [ 4						0.00			Ånaly	sis Finished!!											500us c		500us 👩		500us 🖸	n n
E Protocol /	natyper-TB_20241217	_153146_1.TE	BW* X / \ III Logic.	Analyzer	-untiled2	IB₩• X	/ 🐖	AL.																				

- 1. Toolbar includes Trigger, Sample Rate, Threshold and Run.
- Label Field is to add or to delete the channel(s) by pressing the icons (<sup>1</sup>/<sub>4</sub>, <sup>1</sup>/<sub>4</sub>).
   You may modify the channel settings by clicking its label.
- 3. **Report Window** displays either the data (CH-00) or decode (New) which can be

exported text file in .csv or .txt (



4. Status Bar shows if the TravelBus is connected to the PC.

#### 5. Waveform Window :

You may roll the mouse wheel to zoom in/out the waveforms and see the time difference between cursors.

Trigger (

Manual Trigger After setting up, Click "Stop" button to position trigger point.

#### Single Level Trigger Settings



- 1. **Channel** is to choose the trigger event as any (x), rising  $(\uparrow)$ , ....
- 2. **Pass Count** is to pass the trigger event(s) for the number of times you input.



Memory	Usage ( www.)
	∭ Memory Usage ×
	Memory  Stream to PC RAM
	130 MB (1%)
	Trigger Position < 50%
	Capture Stop Condition
	Stop when device memory full
	O Stop immediately after Triggered
	V OK X Cancel

- 1. Available Memory is to set the percentage of the available PC RAM for use.
- 2. **Trigger Position** is to set the trigger position at the percentage of the memory used.



#### Waveform Window

In the Waveform Window, right-click and drag the mouse on the waveform to show the number of transitions, the interval and average frequency of the waveform. The Protocol Analyzer supports this function too.

		70					
Time Div = 50 us			65.1 us	130 us	195 us	260	326 us
CH-00	0				CH-00 Transition=1 Interval=99.	19 632us	
CH-01	1			20 us 20 us	Freq.(avg)=1           30 us         40 us	100KHz JS 2 J ut	50 us
Decode I2C	1,0		S	Addr:12	N 10	Ν	20
υπ μπ							



# Stack with DSO

Using TravelBus and the Oscilloscope Stack functions, you need to install the special software provided by each oscilloscope brand. The software names are shown in the following table.

DSO brand	Software
Acute	Acute DSO software
Gwinstek	Please download the GW USB driver from the Gwinstek website
Tektronix	Please download the <b>TEKVISA CONNECTIVITY SOFTWARE</b> from the Tektronix website.
Agilent Keysight	Please download the <b>KEYSIGHT IO LIBRARIES SUITE</b> from the Keysight website.
LeCroy	Please download the <b>NI-VISA</b> and Drivers from the <b>NI</b> website.
HAMEG	Please download the <b>NI-VISA</b> and Drivers from the <b>NI</b> website.
Rohde & Schwarz	Please download the <b>NI-VISA</b> and Drivers from the <b>NI</b> website.

Oscilloscope-supportive models:

DSO brand	Model	USB	TCP/IP
Acute	<ul> <li>DS-1000</li> <li>MSO3000</li> <li>TravelScope2000/3000</li> </ul>		
Gwinstek	• GDS-1000A/2000/2000E/3000	$\checkmark$	
Tektronix	<ul> <li>TDS1000B/1000C/2000B/2000C/30 00/3000B/ 3000C/5000/5000B/7000</li> <li>DPO2000/3000/4000/4000B/5000/70 00 7000C/70000/70000B</li> <li>DSA70000/70000B</li> <li>MSO2000/3000/4000/4000B/5000</li> <li>MDO3000/4000/4000B/4000C</li> <li>MDO32, MDO34, MSO54, MSO56, MSO58, MSO64</li> <li>MDO4014B-3, MDO4034B-3, MDO4 054B-3, MDO4054B-6, MDO4104B-3, MDO4 104B-6, MDO4024C, MDO4034C, MDO4054 C, MDO4104C</li> </ul>	$\checkmark$	V
Keysight(Agilent)	• DSO1000A/5000A/6000A/6000L	$\checkmark$	$\checkmark$



	<ul> <li>7000A/7000B/9000A</li> <li>MSO6000A/7000A/7000B/9000A</li> <li>DSO-X</li> <li>2000A/3000T/3000G/4000A/6000A/</li> <li>9000A</li> <li>DSA 9000A</li> <li>DSA-X 9000A/9000Q</li> <li>MSO-X</li> <li>2000A/3000T/3000G/4000A/6000A</li> <li>EXR 100A/400A</li> <li>DSAZ634A, DSOZ634A, DSAZ632A, DSOZ594A, DSAZ594A, DSOZ594A, DSAZ594A, DSOZ592A, DSAZ504A, DSOZ504A, DSOZ254A, DSAZ254A, DSOZ254A, DSAZ254A, DSOZ254A, DSOS254A, DSOS204A, DSOS104A, DSOS204A, D</li></ul>		
	DSOS604A, DSOS404A, MSOS054A, MSOS104A, MSOS204A, MSOS254A, MSOS404A, MSOS604A, MSOS804A		
LeCroy	<ul> <li>WaveRunner / WaveSurfer / HDO4000 / HDO6000 / SDA 8 Zi-A / DDA 8 Zi-A</li> </ul>		
HAMEG	• HMO3000/2000/1000	$\checkmark$	
R & S	<ul> <li>RTO1000 / 2000 / 3000</li> <li>RTE1000</li> <li>RTM3000</li> <li>RTP164</li> <li>MXO44, MXO54, MXO58</li> </ul>		V

There are two methods for hardware wiring:

TravelBus is the Master, while the oscilloscope is the Slave.

Wiring direction is from TravelBus's Trig-Out → the oscilloscope's Trig-In (see Figure 1)





In Figure 1, the USB or Ethernet (TCP / IP) interface is connected to the computer, and then connect the BNC-MCX cable to the TravelBus Trig-Out and the trigger input interface (Ext-Trig, Aux In or Trig-In) of the oscilloscope. MDO4000 series is fixed in the analog channel CH4.

#### The oscilloscope is the Master, while the TravelBus is the Slave.

Wiring direction is from the oscilloscope's Trig-Out  $\rightarrow$  TravelBus's Trig-In (see Figure 2).



Figure2

In Figure 2, the BNC-MCX cable is connected to the TravelBus Trig-In and the trigger output interface (Trig-Out) of the oscilloscope. After completing the above actions,



Stack DSO Demo 0 ps	
Stack External DSO Settings ×	Stack External DSO Settings
Select the DSO	Select the DSO
Select DSO Brand Emulation Connection Type USB OTCP / IP Connect IP: 192 . 168 . 1 . 3	Select DSO Brand Emulation Emulation Acute Agilent GwInstek HAMEG Keysight LeCroy Rohde & Schwarz Tektronix
Connection Status	Connection Status
Connection:	Connection:
Test Connection VOK X Cancel	Test Connection

#### press the "Stack Oscilloscope" button, as shown below:

#### Select the DSO

Select the brand that needs to be stacked on the oscilloscope. When there is no DSO hardware available for stacking, emulation is the mode used to read back the storage files of DSO stack.

#### **Connection Type**

It can be used to select USB, TCP / IP, according to the connection interface provided by the oscilloscope brands.

#### **Connect IP**

It can be used to select TCP / IP for the connection mode and enter IP address. When the Ethernet crossover cable is used, it is recommended that the IP settings of the two machines be 192.168.1.2 and 192.168.1.3 respectively. Gateway is the same, set to 192.168.1.1, and DHCP is set to OFF. If the IP setting does not take effect, please disable and then enable the network, or reboot to make the network settings effective.

#### **Test Connection / Connection Status**

It can be used to connect the oscilloscope / display the current stack oscilloscope model and automatically add the oscilloscope channel to the waveform window. **Screen of oscilloscope stack** 



Time Div = 100 i	us	1 298.53 us	398.53 us 498.53	us 598.53 us	698.53 us 798.53 us	898.53 us	998.53 us	1.1 ms 1.2 ms
		-69	Addr:76		А		12	A
▲ BUS_I2C	SCL-A0				499.77 us			
120	SDA-A1				490.66 us			21//04
								Offset-3.3 Scale
DSO CH1	DSO CH1		0000000				<b>A</b> 10110000	
				······································			ooloofia jiy ja ja ja ja ja ja ja ja	2 V/Di-
DSO CH2	DSO CH2							Offset-3.2 Scale
Label	Channel	4						

#### Oscilloscope is set as the master, while the TravelBus is set as the slave

If the stack is composed of the oscilloscope as the master and TravelBus as the slave, you must not only complete the above-mentioned basic settings but also set the external trigger signal. For the hardware wiring, please refer to Figure 2. Press "Trigger Condition"  $\rightarrow$  "External Trigger", as shown below.

Trigger I2C	Free Run Single Level Width
A T - O ps	Timeout External Manual

#### **Stack Delay**

When TravelBus is triggered successfully, the Trig-Out signal is transmitted through Cable to the DSO with a time delay, resulting in a deviation between the logic and the analog signal time displayed by the waveforms. Therefore, the stack delay time must be set to compensate the delay. In the waveform display screen, you can put the mouse on the top of the DSO waveforms, hold down the Shift key, and then use the mouse's left button to drag the DSO waveforms to the appropriate location to complete the stack delay correction.







# **Advanced Capture Settings**

## **Glitch filter settings**

# \*

The hardware glitch filter function is used to filter out unwanted glitches and logical misjudgment caused by slow transitions. It can be regarded as a low pass filter. Notice that the glitches may sometimes lead to poor quality of data transmission. User can stack a logic analyzer and an oscilloscope to check the signal integrity and whether there are unexpected glitches.

∭ Glitch Filter Settings	×
Ch 0 Ch 1 Ch 2 Ch 3 Ch 4 Ch 5	Ch 6 Ch 7
Ch 8 Ch 9 Ch 10 Ch 11 Ch 12 Ch 13	Ch 14 🗌 Ch 15
Filter signal width < 4 ns 🥅	
Reset All On	✓ OK X Cancel

This filter can filter the signals of less than 5 ns - 35 ns wide. If this filter function is enabled, it will filter before the hardware is triggered. Channels that use the glitch filter function are marked with a red dot on the channel label for identification.



### Software Glitch filter settings

# \*

∭ SWFilter		×
Ch 0 Ch 1 Ch 2 Ch 3 Ch 4 Ch 5	Ch 6	Ch 7
Ch 8 Ch 9 Ch 10 Ch 11 Ch 12 Ch 13	Ch 14	Ch 15
Filter signal width < 1 sample		
Reset All On	V OK	X Cancel

This filter function can be set to filter the signals with pulse width range from 1 ps to 1ms. Enable this filter function will only change the display and decode contents, the trigger and recordable time will remain not effected. Disable this filter function will restore all waveform contents back to the original unfiltered waveform.



# Cursor

This function includes the cursor setting and the waveform search function matching the cursor.

log Acute MSO (Ver:1.4.6)		
File Capture Adv. Capture Curson		
Add Cursor Delete Cursor Move To	By Edge     BUS_eSPI(CH 5)     x 8     Rising       Image: Spin state st	

**Move To:** Move the focused timestamp position in the waveform area according to the selection.



Waveform Start: Move to the beginning of waveform.

First Transition: Move to first waveform transition.

Waveform End: Move to the end of waveform.

Last Transition: Move to last waveform transition.

Last Transition on selected channel: Move to the last waveform transition of selected label.

Trigger Position: Move to the trigger position.

Cursor A-Z: Move to the Cursor position.

Waveform search is divided into four modes:



File	Capture	Adv. Capture	Cursor		
Add	Cursor	Celete Cursor	Move To	By Edge eSPI By Edge By Time By Value Match Search Pulse Width	_Decode(CH 4) 🔍 x 8 💌 Rising 🗨 Move x 3 Cursor(s) 🗘 🍫 🐢

1. By Edge: Move the specified cursor according to the number of

Rising/Falling/Either edges (x1 ~ x4096) of the specified channel.

File	Captur	re Adv. Captur	e Cursor		
	<u>ę</u>	4		By Edge	eSPI_Decode(CH 4) 💌 x 8 💌 Rising 💌
Add C	Cursor	Delete Cursor	Move To	<	Move x 3 Cursor(s)

2. By Time: Move the specified cursor forward or backward to a certain amount of time.

ĺ	File	Captu	re Adv. Captur	e Cursor		
		2	4		ByTime	▼ 10 us ▼
	Add (	Cursor	Delete Cursor	Move To	۹ ،	Move x 3 Cursor(s) 😂 📢 🌵

3. By Value Match: In search of displayed value content of the specified channel, if the specified channel is a protocol, the text comparison will be used for the search; if the specified channel is the bus or channel, the numerical comparison will be used for the search.

File	Captu	re Adv. Captur	e Cursor		
	2			By Value Match	eSPI_Decode     XXh
Add (	Cursor	Delete Cursor	Move To	◀ ♥ ▶	Move x 3 Cursor(s) 🗘 ┥ 🥠

4. Search Pulse Width: The waveform pulse widths meeting the conditions can be searched on the specified channels. The single-cursor movement function on the left side or the multiple-cursor movement function on the right side can be used on any operation meeting or exceeding the conditions.

All of the above operations can be used to move a single cursor on the left or multiple cursors on the right.

File	Captur	e Adv. Captur	e Cursor				
	R			Search Pulse Width 🗨 ESPI_CS# 🗨 High Pulse 🗨	Time >	• 10	us 🔻
Add (	Cursor	Delete Cursor	Move To	<	Move x 3 Cursor	·(s)	ः ┥ 🧼

The starting point of the search is set to the current position of the selected cursor.



Cursor usage:

The cursor system has two special purpose cursors: the triggering cursor T and the search specific cursor B, respectively. To add a new cursor, User can click the "Add

User can click the "Delete Cursor Button" ( 💙 ) on the top.

Cursor movement method:

- 1. Drag the cursor sign or cursor line to move the cursor.
- 2. Use the keyboard A-Z to quickly navigate to the cursor's location.
- Use the keyboard Shift + A-Z to move the cursor to the place where the mouse cursor is. If the cursor does not exist, it will add the cursor to the mouse cursor's location; this could save User time dragging the cursor.

At the bottom right of the screen shows the frequency / time, the value will change as the cursor moves.

**O N M** From left to right are the interval time, frequency calculation, the number of sampling statistics, respectively.

Clicking the cursor name, User can switch the cursor.





# Waveform and Report

#### Waveform

- 1. Use the left mouse button to drag the waveform in the wave form display area.
- User can use the mouse wheel or click the zoom in button on the screen to zoom in/out the waveform.
- 3. To add text/graphic annotation, User can add text or graphic annotation data in the waveform area.
- 4. Quick calculation function

Use the right mouse button to box out an area in the waveform display area, it will show the number of signal transitions in the observation interval, the length of time and the average frequency information. This function can also be used in the waveform display area under the protocol analyzer mode.



- 5. Add/Delete the waveform label.
- Add labels





Add parallel bus



Add protocol decode

Time/Div = 200 us BUS_I2C SCL-0 SDA-1 CC SDA-1 Labe Add Label × 1 Add Label × 2 Add Label × 2 Add Label × 4 Add Label × 8 Add Label × 16 Add Label × 32 Add Label × 64 Add Label × 64 Add Protocol Decode Label Save/Recall	AD-Mux Flash APML AVSBus B BiSS-C BSD BT1120 C CAN/CAN FD Closed Caption CODEC_SSI CvtTxtTab D DALI2 DDC(EDID) DMX512 DP_AuxCh E eSPI F ElexRay	LCD1602 LED_CTRL LIN Line Decoding Line Encoding Lissajous LPC LPT M Math MBus MDDI MDIO MHL-CBUS MICROWIRE MII / RMII Mini/Micro LED MIPI CSI MIPI CSI MIPI SPIMI	S/PDIF SDIO/SD3.0 SDQ SENT Serial Flash Serial Flash SGPIO Smart Card (ISO7816) SMBus SMI SPI SPI NAND SSI ST7669 SVI2 SWD SWIM SWP U UART(RS232) ULPI UNI/O
Label Save/Recall	F FlexRay H	- MIPI SoundWire MIPI SPMI - MMC Modbus	ULPI UNI/O USB PD 3.0 USB1.1



- Label Save/Recall: Save the current channel settings or load the saved channel label.
- Import channel label from CSV file. The file format is as follows,

	А	В	
1	namel	1	
2	name2	2	
3	name3	3	
4	name4	4	
5			

Notice: The feature can only import channel name and number. It cannot import parallel bus or protocol decode.

# **Report Area**



- 1. Display the channel status.
- 2. Display the results of the bus decode, or create customize report from multiple decodes.
- 3. Waveform data statistics

Select measurement type and channels. The default measurement range is the entire waveform area, User can specify a certain range between two cursors. Digital Measurement:

Туре	Channels
Period	1
Frequency	1
Edge Count	1
Cycle Count	1
Positive Cycle Count	1
Negative Cycle Count	1
Positive Pulse count	1
Negative Pulse count	1
Positive Pulse Width	1
Negative Pulse Count	1
Channel-to-Channel Rising Delay	2
Channel-to-Channel Falling Delay	2



Channel Rising to Channel Falling Delay	2
Channel Falling to Channel Rising Delay	2
Phase Delay	2

#### Analog Measurement:

Туре	Channels
Frequency	1
Period	1
V Max.	1
V Min.	1
V High	1
V Low	1
V Peak to Peak	1
V Amplitude	1
V RMS.	1
V Mean	1
V Mid	1
High Duty	1
Low Duty	1
High Period	1
Low Period	1
Rise Time	1
Fall Time	1
V Pos. Overshoot	1
V Neg. Overshoot	1
V Rising Pre-shoot	1
V Falling Pre-shoot	1
Ch to Ch Rising Delay	2
Ch to Ch Falling Delay	2
Ch Rising to Ch Falling Delay	2
Ch Falling to Ch Rising Delay	2
Phase Delay	2
Rising Edge Count	1
Falling Edge Count	1
Edge Count	1

4. Save report area

Save the report area as text files.



# **Bus Decode Settings**

Please refer to the bus trigger and Analyzer manual.

# **Customized Report Settings**

CH-00 CH-01	Bus Customized Report	
	I2C(I2C)	2C
1	UART-Tx(UART(RS232))	D0
2	CAN(CAN/CAN FD)	
3	SPI-bus(SPI)	
4 5	UART2-Tx(UART(RS232))	
6	<ul> <li>Customized Report</li> </ul>	
7		

Select the decode column for your customized report         I2C(I2C)         Status         Address         D0         D1         D2         D3         D4         D5         D6         D7         ASCII         Information         UART-Tx(UART(RS232))         CAN(CAN/CAN FD)         Frame Type         V         D1         V         D1	
Customized report preview C	olumn Selected:8
SampleI2CI2CI2CI2CI2CUART-TxUART-TxCANCANAddressD0D1D2D0D1IDDLC	

All bus decodes enabled in waveform area will be listed in the settings window, select columns wanted from each reports, the preview window will show selected column and combine them to create Userr customized report.

Note: The Bus Decoders must be setup correctly in order to fetch the correct column names for the customized report.



# Chapter 3 Dedicated Channel Description

I2C 
 DP AUX, 10 BASE-T1S port are supported on the TB2000/TB3000 series



There are additional RS422 / 485  $\cdot$  CAN / CAN-FD port supported on the TB2016B/TB3016B,



RS422 / 485



CAN / CAN-FD

(DP AUX, 10BASE-T1S, RS485, CAN / CAN-FD are differential signal. Since TB2000/TB3000 series have the converter inside, there is no need to set the threshold before measure)



# Protocol Analyzer mode

Protocol Select	×
Biss-C DAIL 20 DP-AUX       Channel         UP-AUX       III 0         III 0       III 0         III 0       III 0         III 0       III 0         III 0       IIII 0         IIII 0       IIII 0         IIII 0       IIII 0         IIII 0       IIIII 0         IIII 0       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
○ Default	

Please modify the channel settings in the Protocol Setting.



# Logic Analyzer mode

Use Quick Setting to change channel settings. Warning: Don't change the trigger type after quick setting, or the dedicated channel can't not use.



(If the I2C port is on, only the I2C Clause Trigger can use. If change to the other trigger mode, the I2C port can't use. Unless re-Quick Setting.)



# **Chapter 4 Specifications**

Model		TB3016 TB3016 TB3016B F E							
	Power Source		USB I	bus-power (+5V)					
Power	Static Power Dissipation		0.75W						
	Max Power Dissipation		< 2.5W						
Hardware Inte	erface			USB 3.0					
Timing Analys (Asynchronou Rate)	sis us, Max. Sample			800MHz*					
State Clock F	Rate s, External Clock)			200MHz*					
Channels	, - ,	16 / 1 /	2/-/-	16/1/2/2/4					
(Data / CLK / / RS485 )	I <sup>2</sup> C / DP_Aux / CAN								
<b>-</b>	Timing Analysis		Avai	ilable channels					
Timing	800 MHz			8					
Channels	400 MHz			16					
Ondrineis	200 MHz	16							
Threshold	Group	2 (ch0~7, ch8~15 & clk0)							
	Range	±6V							
Theshold	Resolution		50mV						
	Accuracy		±100mV + 5%*Vth						
	Time resolution			5 ns					
	Channels	16 (Max.)							
	Pre/Post Trigger Setting			Yes					
	Pass Counter		Yes (	0~65536 times)					
	Event Types	Channel,	Pattern, Si	ngle, Width, Time-out, External					
	Module I	l <sup>2</sup> C	, MIPI I3C	1.1, SPI, UART (RS232)					
Trigger	Module II		יHID סי P	ver I²C , I²S , LIN2.2, MDIO, MBus, SMBus, USB1.1					
	Module III			BiSS-C, CAN2.0B, CAN-FD, DALI2.0, DP_AUX, SENT, Modbus, ProfiBus, RS422, RS485, USB PD 3					
	Input port (for Stack)			TTL 3.3V					
	Output port (for Stack)			TTL 3.3V					



Input	Maximum	±40V DC, 15Vpp AC						
Voltage	Sensitivity		0.5\	/pp @150MHz				
Impedance			20	0KΩ // < 5pF				
		Data Port: 14 MHz, CAN Port: 10 Mbps,						
Maximum tar	Maximum target signal speed		I <sup>2</sup> C Port: 400 KHz 3.3V, RS485 Port: Baud rate 20 Mbps					
Temperatur e	Operating / Storage	5°C ~ 45°C °F)	C (41°F ~ 11	3°F) ) / -10°C ~ 65°C (-14°F ~ 149				
	Module I	l <sup>2</sup> C	, MIPI I3C	1.1, SPI, UART (RS232)				
Protocol	Module II		HID over I <sup>2</sup> C, I <sup>2</sup> S, LIN2.2, MDIO, PMB SMBus, USB1.1					
Analyzer	Module III			BiSS-C, CAN2.0B, CAN-FD, DALI2.0, DP_Aux, Modbus, Profibus, PWM, RS422, RS485, USB PD 3				
Software features	Bus decode	1-Wire, 3-Wire, 7-Segment, AccMeter, ADC, APML, BiSS-C, BSD, CAN2.0, CAN FD, Close Caption, CODEC_SSI, DALI2.0, Digital LED, DMX512, DP_Aux, EDID, FlexRay, HDLC, HDQ, HID over I <sup>2</sup> C, I <sup>2</sup> C, I <sup>2</sup> C EEPROM, I <sup>2</sup> S, ITU656, IrDA, JTAG, JVC IR, LCD1602, LIN2.2, Line Decoding, Line Encoding, LPT, M-Bus, Math, MDIO, MHL Cbus, Microwire, Mini/Micro LED, MIPI CSI LP, MIPI DSI LP, MIPI I3C 1.1, MIPI SoundWire, Modbus, NEC IR, PECI, PMBus, Profibus, PS/2, PWM, QEI, QI, RC-5, RC-6, RT_SWI, SDQ, SENT, SGPIO, Smart Card (ISO7816), SMBus, SMI, SPI, SSI, ST7669, SWD, SWIM, SWP, UART, UNI/O, USB1.1, USB PD						

\* Measure signal under 14 MHz ONLY due to data transmission limitation.



Model	Model		TB2016F TB2016E TB2016B					
	P	ower Source			USB bus-	power (+5V)		
Power	S <sup>†</sup> D	tatic Power issipation			0.	75W		
	M D	ax Power issipation	< 2.5W					
Hardware	Inte	rface	USB 3.0					
Timing Ana	alys	is			200	)MHz*		
(Asynchror Rate)	าอน	s, Max. Sample						
State Clock	k Ra	ate			200	)MHz*		
(Synchrono	ous	, External Clock)						
Channels (Data / CLł	۲/۱	<sup>2</sup> C / CAN / RS485)	16 / 1	/ 2	2 / - / -	16 / 1 / 2 / 2 / 4		
	Tir	ne resolution				5 ns		
	Channels				16	δ (Max.)		
	Conditions				١	(es (4)		
	Pr	e/Post Trigger Setting	Yes					
-	Pa	iss Counter	0~65536 times					
	Εv	ent Types	Channel, Pattern, Single, Width, Time-out, External					
	М	odule I						
Trigger	Mo	odule II		HID over I <sup>2</sup> C , I <sup>2</sup> S , LIN2.2 PMbus, SMBus, USE				
119901	М	odule III				BiSS-C, CAN2.0B, CAN-FD,		
						DALI2.0, DP_AUX, SENT, Modbus, ProfiBus, RS422, RS485, USB PD3.0		
	Inp	out port (for Stack)		-		TTL 3.3V		
	Οι	utput port (for Stack)		-		TTL 3.3V		
	Ra	ange			-6'	V ~ +6V		
	Vo	Itage resolution				50mV		
Threshold		Accuracy			±100m\	/ + 5 <mark>%*Vth</mark>		
Input		Maximum			±40V DC	C, 15Vpp AC		
Voltage		Sensitivity	0.5Vpp @150MHz					
Impedance	;		Impedance					
Temperature Operating		5°C ~ 45°C (41°F ~ 113°F)						



	Temperature					
	Storage Temperature	-10°C ~ 65°C (14°F ~ 149°F) ature				
	Module I	DALI, HID over I <sup>2</sup> C, I <sup>2</sup> C, I <sup>2</sup> S, LIN, MDIO, PMBus RS232, SMBus, SPI, USB1.1				
Bus Decode	Module II	CAN, Modbus, ProfiBus, RS422 RS485				
	Module III			BiSS-C, PWM		

\*Measure signal under 14MHz ONLY due to data transmission limitation

Model		TB1016E	TB1016B+					
	Power Source	USB bus-power (+5V)						
Power	Static Power Dissipation		0.75W					
	Max Power Dissipation		< 2.5W					
Hardware Inte	erface	USB 3.0 (USB 2.0 Compatible)						
Timing Analys	sis		200MHz*					
(Asynchronou	us, Max. Sample Rate)							
State Clock Rate			200MHz*					
(Synchronous	s, External Clock)							
Channels		16 / 1 / 2 / - / -	16 /	1/2/2/4				
(Data / CLK /	I <sup>2</sup> C / CAN / RS485 )							
			5 ns					
	Channels		16 (Max.)					
	Conditions	Yes (4)						
-	Pre/Post Trigger Setting	Yes						
	Pass Counter	0~65536 times						
	Event Types	Pattern, Channel, Transition, Width						
Trigger	Module I	DALI, HID o PMBus, RS	ver I²C, I²C, I S232, SMBus	<sup>2</sup> S, LIN, MDIO, , SPI, USB1.1				
	Module II		CAN, Mo RS42	dbus, ProfiBus, 22, RS485				
	Module III			BiSS-C				
	Input port (for Stack)		T	TL 3.3V				
	Output port (for Stack)		T	TL 3.3V				
	Range		-6V ~ +6V					
	Voltage resolution	50mV						
Threshold	Accuracy	±	100mV + 5%	)0mV + 5%*Vth				
Input	Maximum	±4	0V DC, 15Vp	op AC				
Voltage	Sensitivity	0.5Vpp @150MHz						
Impedance		200KΩ // < 5pF						



Temperature	Operating Temperature	5°C ~ 45°C (41°F ~ 113°F)					
remperature	Storage Temperature	-10°C ~ 65°C (14°F ~ 149°F)					
Bus Decode	Module I	DALI, HID over I <sup>2</sup> C, I <sup>2</sup> C, I <sup>2</sup> S, LIN, MDIC PMBus, RS232, SMBus, SPI, USB1.1					
	Module II		CAN, Modbus, ProfiBus, RS422, RS485				
	Module III			BiSS-C, PWM			

\*Measure signal under 14MHz ONLY due to data transmission limitation

# **Chapter 5 Service**

Contact information:

Website: http://www.acute.com.tw

E-Mail: <a href="mailto:service@acute.com.tw">service@acute.com.tw</a>

Phone: +886-2-2999 3275

Fax: +886-2-2999 3276

Troubleshooting:

If the TravelBus is in "Demo mode", please follow the steps below:

(1) Use the USB3.0 cable (only) in the product package.

(2) Check if the USB driver is in the Device Manager.

(3) Install the latest version software from the official website of Acute Technology Inc.,

go to the Download page->Software, and then select [Logic Analyzer ] TravelBus

**series** to download the TBA series.

- (4) Re-plug the USB3.0 cable or reboot the OS to check if the USB driver exists.
- (5) Contact us for further help if above procedures do not work.



# Appendix 1 Report List Advanced Instructions

1. Select the Window button-> Report list on the toolbar, the software will open the report list function and present it at the bottom of the main window. It can be adjusted the most suitable viewing size.

Conn	Conned Protocol Analger Hole Wateforma, Run Statch Al Field U201/25551 E botom Window Save Is test Statch SO															
						Report List			_			N N	avigator			8
	Timestam	> (h:m:s.ms.us.ns dur) E	Svent	Data	Information	Show Both R	eport		0.8	Clock	CMD Duratic	Dat	iscription	Txns	Bytes	
1293	1	1:47:19.420.577.980 1_ 0	CMD06 SWITCH	46 03 B9 01 00 2F		Show Show I	ain Report Report		00.04 KHz	Nrc: 9	117.488us		Command	5038	241824	
1294	1	1:47:19.420.702.965 1_	Busy start			Ohner Ohner	accordany Report	Report					Data	242993	124406970	
1295	1	:47:19.420.727.965 2	Resp06 R1b	06 00 00 08 00 CB			secondary report	report			117.488us		Error	21		
1296	1	1:47:19.421.707.864 9	Busy end		BusyTime:1.0049	ma							<ul> <li>Sector Count</li> <li>Weit Data Transfer</li> </ul>			
1297	1	):47:19.421.850.353 1_ 0	CMD13 SEND STATUS	4D 00 00 00 00 0D					400.04 KHz	Nrc: 402	117.488us	_	Busy Time(ns)			
1298	10	:47:19.421.997.838 1_	Respl3 Rl	OD 00 00 09 00 3F			Tran			Ner: 12	117.488us	_				
1299	1	):47:19.422.165.322 1	CMD08 SEND EXT CSD	48 00 00 00 00 C3					400.04 KHz	Nrc: 19	117.488us					
1300	10	:47:19.422.315.307 1_	Resp08 R1	08 00 00 09 00 F1			Tran			Ncr: 13	117.488us	_				
1301	1	147:19.422.632.772 3_	Read, 512 bytes	00 00 00 00 00 00 00 00	SC=1 WaitTime:1	99.977us			lbit			10.				
1302	1	:47:19.432.936.748 1_ 0	CMD06 SWITCH	46 03 A2 01 00 A3					400.04 KHz	Nrc: 9	117.488us					
1303	1	0:47:19.433.061.732 1_	Busy start													
1304	1	1:47:19.433.086.733 2	Resp06 Blb	06 00 00 08 00 CB			Tran				117.488us	_				_
1305	1	147:19.433.641.674 5_	Busy end		BusyTime: 579,94	20.5						_				8
1306	1	147:19.434.209.121 5	CMD13 SEND STATUS	4D 00 00 00 00 0D					400.04 KHz	Nrc: 402	117.48808					-
1307	1	147:19.434.356.606 1	Respl3 R1	0D 00 00 09 00 3F			Tran			Nor: 12	117.400us	S	tatistics Txns	Bytes		-
1308	1	147119.434.516.590 1	CMD16 SET BLOCKLEN	50 00 00 02 00 15					400.04 KHz	Nrci 16	117.488115	_	CMD00 4 CMD08 7	192		
1 100	1	47.19.434.666.575.1	Reaple Ri	10 00 00 09 00 08			Tran			Nort 13	117.4880.	_	CMD55 5	240		
1210	1	47.19 424 924 059 1	MDOA SHITCH	46 03 87 06 00 48					400 04 227	Nrol 16	117 400118	_	CMD01 31	1488		
1311	1	47.10 434 949 043 1	Buay start									_	CMD02 2	96		
1212	1	47.10 424 074 044 2	ReenOF Rib	06 00 00 08 00 08			Tran				117 400116	_	CMD03 2 CMD09 2	96		
1212	1	47.10 435 530 004 5	Buay and		BuayTime: 500 04	11110						_	CMD13 64	3072		
1214	1	47.16 426 062 622 5	TWD12 CEND CTATIC	40.00.00.00.00.00	Dus frame i overes	12.00			400 04 222	Wrot 401	117 40000	_	CMD07 2	96		
1915	1	47.10 426 241 417 1	Page 13 Pl	00 00 00 00 00 35			Tran		100101 1410	Nort 12	117 40000		CMD06 62	2976		
1216	1	47.10 496 062 005 7	THE PAST AND ATHONE BLOCK	51 00 00 00 00 55			A & 0.11		50 005 MHz	Neg. 20202	626 606pe	_	CMD16 1	48		_
1217	1	47:10 426 064 005 1	Page 17 Pl	11 00 00 09 00 67			Tran		oorooo min	Nort 12	939 906pa	_	CMD18 2405	115440		
1210	1	47.10 497 559 019 5	Bond 512 human	FR R0 00 10 00 00 00	Col MainTimers	00 07000	12.011		Shir DDD	NOL1 10	5551500H8		CMD12 30	1440		_
1310	1	47.16 456 507 587 1	MDIA DEAD MULTIDIE BLOCK	52 00 00 04 CE 1D	SO-I Waldline.S	100.07048			SO OOS MWW	Negl Over	939 904pe	0.1	CMD52 2	96		
1019	1		D 10 DI				-		JOLUGO MAZ	PLOT OVEL	sos.soons		CMD05 4	192		_
4													Detail Navigator	Hide Items		
Search List Topger List Statistics List Bookmark List Table Topger List Statistics List																
Lin	e No.	Timestamp (h:m:s.ms.us.ns.dur)	Event	Data		Information		Current state	Error message	Bus	Clock	CMD Dura	tion Data Duration			E
121	3 10	:47:19.420.577.980 10.3	Oms CHDO6 SWITCH	46 03 B9 01 00 2F						400.04 KHz	Nrc: 9	117.488	15			
130	2 10	:47:19.432.936.748 10.3	0ms CMD06 SWITCH	46 03 A2 01 00 A3						400.04 KHz	Nrc: 9	117.488	15			
133	.0 10	:47:19.434.824.059 157.	48us CMD06 SWITCH	46 03 B7 06 00 4F						400.04 KHz	Nrc: 16	117.488	15			
298	95 10	:47:28.268.263.527 13.8	2ms CMD06 SWITCH	46 03 AF 01 01 51						385.456 K	Nrc: 1216	121.931	15			
291	101 10	147:28.276.151.368 5.90	ms CMDO6 SWITCH	46 03 87 02 01 05						305.441 K	Nrc: 2227	121.934	19			
_			1	1												
acket 25	569 (E.O) C	onnected eMMC 5.1 00:00:53 / 00:	12:46 SN 20358 (USB 3.0)													

2. This function can be combined with the statistics function, please click the Navigator tab on the right side of the main window.

File	Capture	Cursor															
Conn	Connect Protocol Acajeer Hole Wantforms, Run Peid Part 1/2033 / 255501													Tunning			
													Navigator				
	Timest	amp (h:m:s.ms.us.ns dur) Event	Da	ta	Information	Current stat	Error messag	Bus	Clock	CMD DuraticI	Disc	ription	Txns	Bytes			
1293		10:47:19.420.577.980 1 CMD06	SWITCH 46	03 B9 01 00 2F				400.04 KHz	Nrc: 9	117.488us		Command	5038	241824			
1294		10:47:19.420.702.965 1	Busy start									Data	242993	124406970			
1295		10:47:19.420.727.965 2 Resp	06 R1b 06	00 00 08 00 CB		Tran				117.488us		Error	21				
1296		10:47:19.421.707.864 9	Busy end		BusyTime:1.0049ms							Net Data Time(es)					
1297		10:47:19.421.850.353 1. CMD13	SEND_STATUS 4D	00 00 00 00 0D				400.04 KHz	Nrc: 402	117.488us		Busy Time(ns)					
1298		10:47:19.421.997.838 1. Resp	13 R1 0D	00 00 09 00 3F		Tran			Ncr: 12	117.488us							
1299		10:47:19.422.165.322 1. CMD08	SEND_EXT_CSD 48	00 00 00 00 C3				400.04 KHz	Nrc: 19	117.488us							
1300		10:47:19.422.315.307 1. Resp	08 R1 08	00 00 09 00 F1		Tran			Ncr: 13	117.488us							
1301		10:47:19.422.632.772 3. Re	ad, 512 bytes 00	00 00 00 00 00 00 00	SC=1 WaitTime:199.977us			lbit		1	LO.						
1302		10:47:19.432.936.748 1. CMD06	SWITCH 46	03 A2 01 00 A3				400.04 KHz	Nrc: 9	117.488us							
1303		10:47:19.433.061.732 1	Busy start														
1304		10:47:19.433.086.733 2 Resp	06 R1b 06	00 00 08 00 CB		Tran				117.488us							
1305		10:47:19.433.641.674 5	Busy end		BusyTime: 579.942us												
1306		10:47:19.434.209.121 5 CMD13	SEND_STATUS 4D	00 00 00 00 0D				400.04 KHz	Nrc: 402	117.488us	- Card	ation Turns	D. a.u.				
1307		10:47:19.434.356.606 1 Resp	13 R1 OD	00 00 09 00 38		Tran			Nor: 12	117.488us	5180	CMD00 4	192				
1308		10:47:19.434.516.590 1. CMD16	SET_BLOCKLEN 50	00 00 02 00 15				400.04 KHz	Nrc: 16	117.488us		CMD08 7	336				
1309		10:47:19.434.666.575 1 Resp	16 R1 10	00 00 09 00 08		Tran			Ncr: 13	117.488us		CMD55 5	240				
1310		10:47:19.434.824.059 1_ CMD06	SWITCH 46	03 B7 06 00 4F				400.04 KHz	Nrc: 16	117.488us	-	CMD01 31	1488				
1311		10:47:19.434.949.043 1	Busy start									CMD02 2 CMD03 2	96				
1312		10:47:19.434.974.044 2_ Resp	06 R1b 06	00 00 08 00 CB		Tran				117.488us		CMD09 2	96				
1313		10:47:19.435.538.984 5	Busy end		BusyTime:589.941us							CMD13 64	3072				
1314		10:47:19.436.093.932 5_ CMD13	SEND STATUS 4D	00 00 00 00 0D				400.04 KHz	Nrc: 401	117.488us	_	CMD07 2	96				
1315		10:47:19.436.241.417 1 Resp	13 R1 0D	00 00 09 00 3F		Tran			Nor: 12	117.488us		CMD06 62	2976				
1316		10:47:19.436.962.895 7_ CMD17	READ SINGLE BLOCK 51	00 00 00 00 55				50.005 MHz	Nrc: 30202	939.906n#		CMD17 21	1008				
1317		10:47:19.436.964.095 1_ Resp	017 R1 11	. 00 00 09 00 67		Tran			Nor: 13	939.906ns		CMD18 2405	115440				
1318		10:47:19.437.553.913 5. Re	ad. 512 bytes FA	B8 00 10 8E D0 BC 00	SC-1 WaitTime:588.878us			Sbit DDR		5		CMD12 30	1440				
1319		10:47:19.456.507.587 1_ CMD18	READ MULTIPLE BLOCK 52	00 00 04 CF 1D				50.005 MHz	Nrc: Over	939,906ns		CMD52 2	96				
1.750						-						A PERSON	147	1			
Search Statistic	Sarach Lat Tropper Lat Statistics List Bookmark List International Control of the International Control																
14	a No	Timestown (homes means and and	Frant	Dette	Information		Connectation	Empre manna an	Day	Check	CMD Demiser	Data Dention					
12	93	10:47:19,420,577,980 10,30ms	CMD06 SWITCH	46 03 B9 01 00 2F	LAPOEDSHOR		~ WARRAN SHOLE	THE REAL PROPERTY IN CONTRACTOR	400.04 KHz	Nrc: 9	117.488480	Long Distant					
13	02	10:47:19,432,936,748 10,30ms	CMD06 SWITCH	46 03 A2 01 00 A3					400.04 KHz	Nrc: 9	117,488us						
13	10	10:47:19.434.824.059 157.48us	CMD06 SWITCH	46 03 B7 06 00 4F					400.04 KHz	Nrc: 16	117,488us						
29	895	10:47:28.268.263.527 13.82ms	CMD06 SWITCH	46 03 AF 01 01 51					385,456 K	Nrc: 1216	121,931us						
29	901	10:47:28.276.151.368 5.90ms	CHDO6 SWITCH	46 03 B7 02 01 05					385.441 K	Nrc: 2227	121.934us						
-			-		1				-					ž			
Pecket 25	what 20000 (fu) [counced] (400(53) [000.037/00.1246] [28/2008 (000.10]																



3. Click the items of the statistical function in sequence, the statistical results will be presented in the Statistic List in the report list, and can be clicked on this table to track the position of this data in the main report area.

1.114	Capture Curs	or												
Conn	ect Protocol	Protocol Analyzer Hide Waw	eforms, Run Q	arch All Field  arch All Field  1293 /:	255591 To bottom Window, Save	to text Stack DS	60				_			Tunning
														8
_	Timestamp (h	:n:s.ns.us.ns dur) Even	nt	Data	Information	Current stat	Error messag	Bus	Clock	CMD DuraticE	at* Di	scription	Txns	Bytes
1293	10:47	:19.420.577.980 1 CMD	06 SWITCH	46 03 B9 01 00 2F				400.04 KHz	Nrc: 9	117.488us		Command	5038	241824
1294	10:47	19.420.702.965 L	Busy start								-	Data	242993	124406970
1295	10:47	19.420.727.965 2. R	esp06 R1b	06 00 00 08 00 CB		Tran				117.488us		Error	21	
1296	10:47	19.421.707.864 9	Busy end		BusyTime:1.0049ms						- '	Sector Count		
1297	10:47	19.421.850.353 1. CMD	13 SEND STATUS	4D 00 00 00 00 0D				400.04 KHz	Nrc: 402	117.488us		Busy Time(ns)		
1298	10:47	19.421.997.838 1. R	espl3 Rl	0D 00 00 09 00 3F		Tran			Nor: 12	117.488us				
1299	10:47	:19.422.165.322 1. CMD	08 SEND_ENT_CSD	48 00 00 00 00 C3				400.04 KHz	Nrc: 19	117.488us				
1300	10:47	19.422.315.307 1 R	esp08 R1	08 00 00 09 00 F1		Tran			Nor: 13	117.488us				
1301	10:47	19.422.632.772 3	Read, 512 bytes	00 00 00 00 00 00 00 00	SC=1 WaitTime:199.977us			lbit		1	.0.			
1302	10:47	19.432.936.748 1 CMD	06 SWITCH	46 03 A2 01 00 A3				400.04 KHz	Nrc: 9	117.488us			<b>5</b>	
1303	10:47	:19.433.061.732 1	Busy start											
1304	10:47	19.433.086.733 2 R	esp06 R1b	06 00 00 08 00 CB		Tran				117.488us		×		
1305	10:47	:19.433.641.674 5	Busy end		BusyTime:579.942us									
1306	10:47	:19.434.209.121 5 CMD	13 SEND_STATUS	4D 00 00 00 00 0D				400.04 KHz	Nrc: 402	117.488us	5	atistics Type	Butes	
1307	10:47	:19.434.356.606 1 R	esp13 R1	0D 00 00 09 00 3F		Tran			Nor: 12	117.488us	-	CMD00 4	192	1
1308	10:47	:19.434.516.590 1 CMD	16 SET_BLOCKLEN	50 00 00 02 00 15				400.04 KHz	Nrc: 16	117.488us		CMD08 7	336	
1309	10:47	19.434.666.575 1 R	espl6 Rl	10 00 00 09 00 0B		Tran			Nor: 13	117.488us		CMD55 5	240	
1310	10:47	:19.434.824.059 1 CMD	06 SWITCH	46 03 27 06 00 45				400.04 KHz	Nrc: 16	117.488us		CMD01 31 CMD02 2	1488	
1311	10:47	19.434.949.043 1	Busy start									CMD02 2 CMD03 2	96	
1312	10:47	:19.434.974.044 2 R	esp06 R1b	06 00 00 08 00 CB		Tran				117.488us		CMD09 2	96	
1313	10:47	19.435.538.984 5	Busy end		BusyTime:589.94lus							CMD13 64	3072	
1314	10:47	19.436.093.932 5 CMD	13 SEND_STATUS	4D 00 00 00 00 0D				400.04 KHz	Nrc: 401	117.488us		CMD07 2	96	
1315	10:47	:19.436.241.417 1 R	espl3 Rl	0D 00 00 09 00 3F		Tran			Ncr: 12	117.488us		CMD16 1	48	
1316	10:47	19.436.962.895 7. CMD	17 READ_SINGLE_BLOCK	51 00 00 00 00 55				50.005 MHz	Nrc: 30202	939.906ns		CMD17 21	1008	
1317	10:47	:19.436.964.095 1 R	espl7 Rl	11 00 00 09 00 67		Tran			Ncr: 13	939.906ns		CMD18 2405	115440	
1318	10:47	19.437.553.913 5	Read, 512 bytes	FA B8 00 10 8E D0 BC 00	SC=1 WaitTime:588.878us			Sbit DDR		5		CMD12 30 CMD52 2	1440	
1319	10:47	:19.456.507.587 1 CMD	18 READ_MULTIPLE_BLOCK	52 00 00 04 CF 1D				50.005 MHz	Nrc: Over	939.906ns		CMD05 4	192	-
		10 100 000 000 1 D	14.81	10 00 00 00 00 <b>P</b> A						*** ***		Antoil Mariantes	Hide Rome	
Search Statistics	List Trigger Lis List	st Statistics List Bookm	ark List								,	Д.		8
<b>P</b>	⊼ ∧ 1 /62	∨ ⊻ 🖬 🖬 🖼 🔛	-									$\overline{}$		
Lin	e No.	Tamestamp (h:m:s:ms.us.ns.dur)	Event	Data.	Information		Current state	Error message	Bas	Clock	CMD Dunti	ion Dets Duration		-
121	10:47	19.420.577.980 10.30ms	CHUGE SWITCH	46 03 89 01 00 2F					400.04 KHz	NECT 9	117.4000			_
130	10:47	19.432.936.748 10.30ms	CHDUG SWITCH	46 US A2 01 00 A3					400.04 KHz	NEC: 9	117.488u	5		_
133	10:47	19.434.024.059 157.480	CRUDOG SWITCH	46 03 87 06 00 4F					100.04 KHz	Mrc: 16	127.4880			
293	10147	20.200.203.527 13.82MS	Chipoe switch	10 03 AF 01 01 51					305.456 K	MIC: 1216	121.9310	5		
2.91	10147		CADUE SWITCH	46 03 87 02 01 05				_	332.441 K	MAC1 2227	**1.9340	-		<u> </u>
Packet 25														

4. This function also provides Search, Trigger and Bookmark List can be used, (1) Search List

File C	apture Cursor												
Connect	Protocol Analyzer Hide Waveforms, Run	Search All Field	255591 To bottom Window Sa	we to text Stack D	so							Tunnin	10 <b>_</b>
	imestamp (h:m:s.ms.ms.dur) Event	Data	Information	Corrent stat	Error nessag	Bus	Clock	CMD Duratic Dat	* Navigator				0
1205	0 10.47.10 420 727 965 2 Reen06 Bib	06 00 00 08 00 CB	1	Tran				117 4880.0	Discripti	ion	Txns	Bytes	
1296	10:47:19.421.707.864 9. Buey and		BusyTime:1.0049ms	12011					Con	nmano	242993	124406970	
1297	10:47:19,421,850,353 1 CMD13 SEND STATUS	4D 00 00 00 00 0D				400.04 KHz	Nrc: 402	117,488us	Erro	Nr .	21		
1298	10:47:19.421.997.838 1 Resp13 B1	0D 00 00 09 00 3F		Tran			Nor: 12	117,488us	Sec	tor Count			
1299	10:47:19.422.165.322 1 CMD08 SEND EXT CS	D 48.00.00.00.00.C3				400.04 KHz	Nrc: 19	117,48808	Wat	t Data lime(ns)			
1300	10:47:19,422,315,307 1 Resp08 B1	08 00 00 09 00 F1		Tran			Nor: 13	117,488us	Dus	y rime(ns)			
1301	10:47:19.422.632.772 3 Read. 512 b	vtes 00 00 00 00 00 00 00 00	SC=1 WaitTime: 199.977us			lbit		10					
1302	10:47:19.432.936.748 1_ CMD06 SWITCH	46 03 A2 01 00 A3				400.04 KHz	Nrc: 9	117.488us					
1303	10:47:19.433.061.732 1 Busy start												
1304	Q 10:47:19.433.086.733 2. Resp06 Rib	06 00 00 08 00 CB		Tran				117.488us					
1305	10:47:19.433.641.674 5 Busy end		BusyTime: 579.942us										
1306	10:47:19.434.209.121 5 CMD13 SEND STATUS	4D 00 00 00 00 0D				400.04 KHz	Nrc: 402	117.488us					
1307	10:47:19.434.356.606 1 Resp13 R1	OD 00 00 09 00 3F		Tran			Nor: 12	117.488us					-
1308	10:47:19.434.516.590 1 CMD16 SET_BLOCKLE	N 50 00 00 02 00 15				400.04 KHz	Nrc: 16	117.488us	Castistic	Turne	D. day		
1309	10:47:19.434.666.575 1 Resp16 R1	10 00 00 09 00 08		Tran			Nor: 13	117.488us	Statistic	s 1xns	bytes 192		
1310	10:47:19.434.824.059 1. CMD06 SWITCH	46 03 B7 06 00 4F				400.04 KHz	Nrc: 16	117.488us	CM	D08 7	336		
1311	10:47:19.434.949.043 1 Busy start								CM	D65 6	240		
1312	Q 10:47:19.434.974.044 2 Resp06 Rib	06 00 00 08 00 CB		Tran				117.488us	CM	D01 31	1488		
1313	10:47:19.435.538.984 5 Busy end		BusyTime: 589.941us						CM	002 2	96		
1314	10:47:19.436.093.932 5 CMD13 SEND STATUS	4D 00 00 00 00 0D				400.04 KHz	Nrc: 401	117.488us	CM	D09 2	96		
1315	10:47:19.436.241.417 1 Resp13 R1	OD 00 00 09 00 3F		Tran			Nor: 12	117.488us	CM	D13 64	3072		
1316	10:47:19.436.962.895 7_ CMD17 READ_SINGLE	BLOCK 51 00 00 00 00 55				50.005 MHz	Nrc: 30202	939.906ns	CM	D07 2	96		
1317	10:47:19.436.964.095 1 Resp17 R1	11 00 00 09 00 67		Tran			Nor: 13	939.906ns	CM	DU6 62	2976	_	
1318	10:47:19.437.553.913 5. Read, 512 b	ytes FA B8 00 10 8E D0 BC 00	SC=1 WaitTime:588.878us			Sbit DDR		5.	CM	D17 21	1008		
1319	10:47:19.456.507.587 1 CMD18 READ_MULTIP	LE_BLOCK 52 00 00 04 CF 1D				50.005 MHz	Nrc: Over	939.906ns	CM	D18 2405	115440		
1320	10:47:19.456.508.787 1. Resp18 R1	12 00 00 09 00 D3		Tran			Nor: 13	939.906ns	CM	D12 30	1440		
1321	10:47:19.458.755.802 2 Read, 512 b	ytes 00 00 00 00 00 00 00 00	SC=1 WaitTime:2.24608ms			Sbit DDR		5.4	CM	052 2	30		
								1			10 de la sere		_
Search List	tt Trigger List Statistics List Bookmark List	Event Data	Internetion		Current data	Prove weeks of	Pres	Chek (	MD Dension	Data Denaking			(2)
1295	10:47:19.420.727.965.25.00us Resp06 B	Des 00 00 08 00 CB	Intermeter		Tran	Prior managle	Des	CACK C	7.488115	Louis Louis Bolt			-
1304	10:47:19.433.086.733.25.00us Resp06 R	06 00 00 00 00 CB			Tran			11	7.488115				
1312	10:47:19.434.974.044 25.000s Resport				Tran			11	7.488114				
2989	7 10:47:28.268.419.185.25.94us Resp06 R	06 00 00 08 00 CB			Trap		-	12	1.934114				
2990	10:47:28.276.307.026 25.94us Bearos D				17an 122			21.73143					
-	Kespoe K	00 00 00 03 00 CB					-	-		_			1
Packet 25558	9 (E.0) Connected eMMC 5.1 00:00:53 / 00:12:46 SN 20358 (02B 3.0												



(2	2). Trigger Lis	st									
Protocol S	iettings				×						
eMMC 5.1	Sample Rate 2.4 GHz	Filte	ter								
NAND Flash RS232	Dimper Rate 2.4 On 2		Data Length > 512	w bytes							
SD 3.0 SD 4.0	Phimary Protocol Analyzer		Number of blocks > 1 ( SC > 1 )								
SPI			Trigger on		_						
	eMMC Probe	• •									
			CMD/DATA	0807							
				CRC16 error							
	Custom eMMC	a	General     General     General	CMD8 End bit error							
			O DATA	VCC Drop							
				VDD Drop							
	Secondary Protocol Analyzer or V	/0									
		C	Additional     Timeout	Setting O CRC Status Pattern Positive	<b>•</b>						
	NAND Flash No. 100	IAND channel									
	0.10	Opt	tion								
		В	BUS mode settings at BOOT								
			HS400 DDR m	vode Vendor CMD OFF							
			BUS width 4 v bit	3 Pin mode (CMD, CLK, D0)							
			Retain RUS mode settings of	CLK Detect 24ns	Ŧ						
			Tuning cottings an	Volt. detect channel							
			Tuning seargs	VCC(A0) VDD(A1)							
	Default			✓ OK ×	Cancel						
File Captu	ure Cursor										
۵.		Q Search	th All Field 1287 /	/ 31332							Tunning
Connect	Protocol Protocol Applymer Hide Mausforme	Due Search		To bottom Mindow Qour to text	01						
Connect		Run			Stack DSO						<b></b>
Times	itamp (himis.ms.us.ns dur) Event	Dat	ta	Information	Current stat Error me	ssag Bus	Clock CMD	Durat:	Navigator	Txns Bytes	• @8
1270	tamp (h:m:s.ms.us.ns dur) Event 11:13:13.920.485.741 1 Resp01 F 11:13:13.921.605.132 1. CMP01 SENT	Run Dat	ta 40 FF 80 80 FF 40 30 00 00 87	Information	Current statError me	400,023 K	Clock CMD Ncr: 6 117 Nrc: 401 117	Durat *	Navigator Discription Command Data	Txns Bytes 94 4512 31121 1593	08
Times 1270 1271 1272	<pre>tamp (him:s.ms.us.ns dur) Event li:13113.920.495.741 Resp01 5 li:13113.921.691.32 CMD01 SEMI li:13113.921.740.622 1 Resp01 5</pre>	R3         3F           D_OP_COND         41           R3         3F	ta 40 FF 80 80 FF 40 30 00 00 87 40 FF 80 80 FF	Information	Current stat Error me	400.023 K	Clock CMD Nor: 6 117 Nrc: 401 117 Nor: 6 117	Durat =	Navigator Discription Command Data Error Sector Count	Txns         Bytes           94         4512           31121         1593           2         2	1131
Times 1270 1271 1272 1273 1274	<pre>tamp (htm:s.ms.us.ns.dur) Event li13:13.920.485.741 L Resp01 F li13:13.920.485.741 L Resp01 F li13:13.921.686.132 L (CMD1 SEMI li13:13.921.686.331 L (CMD1 SEMI li13:13.922.686.301 L (CMD1 SEMI li13:13.922.985.501 L (CMD1 SEMI li13:13.922.985.501 R Resp01 F</pre>	Dat           R3         3F           D_OP_COND         41           R3         3F           D_OP_COND         41           R3         3F           J.OP_COND         41           R3         3F	ta 40 FF 80 80 FF 40 30 00 00 B7 40 FF 80 80 FF 40 30 00 00 B7 40 FF 90 80 FF	Information	Current stat Error me	400.023 K 400.04 KHz	Clook         CMD           Ncr: 6         117           Nrc: 401         117           Ncr: 6         117           Nrc: 402         117           Ncr: 6         117	Durat."	Navigator Discription Command Data Error > Sector Count Wait Data Time(ns) Busy Time(ns)	Txns         Bytes           94         4512           31121         1593           2         1593	1131
Times 1270 1271 1272 1273 1274 1275	<pre>tamp (his:s.ms.ts.ns dar) Event ili1313.52(45.741). Resp0.1 Resp0</pre>	R01         Dat           R3         3F           D_OP_COND         41           R3         3F           D_OP_COND         41           R3         3F           D_OP_COND         41           R3         3F           D_OP_COND         41           R3         3F	ta 40 FF 80 80 FF 40 30 00 00 87 40 FF 80 80 FF 40 30 00 00 87 40 FF 80 80 FF 40 30 00 00 87 40 30 00 00 87	Information	Current stat Error me	400.023 K 400.023 K 400.04 KHz 400.04 KHz	Clock         CMO           Ncr: 6         117           Nrc: 401         117           Nrc: 402         117           Nrc: 6         117           Nrc: 6         117           Nrc: 6         117           Nrc: 6         117	Durat *	Navigator Discription Command Data Error > Sector Count Wait Data Time(ns) Busy Time(ns)	Txns         Bytes           94         4512           31121         1593           2         1593	1131
Times 1220 1271 1272 1273 1274 1275 1276 1277	THOSE THREE THR	R01         Date           R3         3F           D_OP_COND         41           R3         3F           D_OP_COND         41           R3         3F           D_OP_COND         41           R3         3F           SEND_CID         41	ta 40 FF 80 80 FF 40 30 00 00 B7 40 FF 80 80 FF 40 50 00 00 B7 40 5 FF 80 80 FF 40 30 00 00 B7 40 30 00 00 B7 C0 FF 80 80 FF 00 00 00 00 00 00 ED	Information	Current stat Error me	400.023 K. 400.04 KHz 400.04 KHz 400.04 KHz	Clock         CMD           Ncr: 6         117           Ncr: 401         117           Ncr: 402         117           Ncr: 6         117           Ncr: 6         117           Ncr: 5         117           Ncr: 5         117           Ncr: 5         117           Ncr: 402         117	Durat 1 .400us .400us .400us .400us .400us .400us .400us .400us	Navigator Discription Command Data Error Sector Count Wait Data Time(ns) Busy Time(ns)	Txms         Bytes           94         4512           31121         1593           2         1593	1131
Times 1270 1271 1272 1273 1274 1275 1276 1277 1276 1277 1278	Totaco (1010) and a const dury) Event (1011) 113 - 120 - 645.741 L. Beng01 F 1113313.421.040.120 L. (2000) SSTR 1113313.421.040.120 L. (2000) SSTR 1113313.422.045.033 L. (2000) SSTR 1113313.422.045.030 L. (2000) SSTR 1113313.422.045.050 L. Beng01 F 1113313.424.01.051 L. (2000) SSTR 1113313.424.01.051 L. (2000) SSTR 1113313.424.000 L. (2000) SSTR 1113313.000	Run         Date           B3         3F           D_OP_COND         41           R3         3F           D_OP_COND         41           R3         3F           D_OP_COND         41           R3         3F           D_OP_COND         42           R3         3F           D_OP_COND         42           R2         R2           R2         DFTATUE ADDE	ta           40 FF 50 50 FF           40 S0 00 00 FF           40 S0 00 00 FF           40 FF 50 80 FF           50 00 00 F0 00 51	Information	Current stat Error me	400.023 K 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz	Clock CHD Nor: 6 117 Nrc: 401 117 Nrc: 401 117 Nrc: 402 117 Nrc: 401 117 Nrc: 401 117 Nrc: 402 117 Nrc: 402 117 Nrc: 403 117 Nrc: 6 337 Nrc: 6 317	Durat 1 .400us .492us .400us .400us .400us .400us .400us .400us .400us .400us	Navigator Discription Command Data Error Sector Count Wait Data Time(ns) Busy Time(ns)	Tuns         Bytes           94         4512           31121         1593           2         1593	1131
Times           1270           1271           1272           1273           1274           1275           1276           1277           1278           1279           1280	<pre>tamp (hins:sec.eds.ret )</pre>	Run         Dest           B3         3F           D_OOP_COND         41           R3         3F           D_OOP_COND         41           R3         3F           D_OOP_COND         41           R3         3F           D_OOP_COND         41           R3         3F           D_OP_COND         41           R3         3F           D_OP_COND         41           R3         3F           D_OP_COND         41           R3         3F           D_RELATIVE_ACCOR         43           R1         03	La           40 FF 50 50 FF           40 J5 00 00 FF           40 J5 00 00 FF           40 FF 50 50 FF           40 FF 50 50 FF           40 J5 00 00 DF           40 FF 50 50 FF           40 J5 00 00 DF           40 FF 50 50 FF           40 J5 00 00 DF           40 FF 50 50 FF           40 J5 00 00 DF           50 J5 10 00 57 44 57 31           00 00 00 00 75           00 00 00 00 FF	Information	Carrent stat Error me	400.023 K 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz	Clook         CHO           Nor: 6         117           Nor: 601         127           Nor: 601         127           Nor: 6         117           Nor: 6         317           Nor: 6         337           Nor: 12         117	Durat = .400us	Navigator Discription Command Data Error Sector Count Wait Data Time(ns) Busy Time(ns)	Tuns         Bytes           94         4512           31121         1593           2         1593	@×
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Times           1271           1271           1272           1273           1274           1275           1276           1277           1279           1281           1282           1283           1284	<pre>trans_ file_consign_ file_transmitter (file_construction); 11131313-021-000-132 L (CR00_SR01 11131313-021-000-132 L (CR00_SR01 11131313-021-000-232 L (CR00_SR01 11131313-022-083-033 L (CR00_SR01 11131313-022-083-033 L (CR00_SR01 11131313-022-083-033 L (CR00_SR01 11131313-022-083-034 L (CR00_SR01 11131313-024-083-034 L (CR00_SR01 11131313-024-083-034 L (CR00_SR01 11131313-084-083-034 L (CR00_SR01 11131313-084-083-034 L (CR00_SR01 11131313-084-083-034 L (CR00_SR01 11131313-084-083-034 L (CR00_SR01 11131313-084-084-034 L (CR00_SR01 111313-084-084-034 L (CR00_SR01)</pre>	Ruin         Date           B3         3F           D,OP_COND         41           B,OP_COND         41           D,OP_COND         41           D,OP_COND         41           D,OP_COND         41           D,OP_COND         41           D,OP_COND         41           D,OP_COND         42           D,OP_COND         41           D,OP_COND         42           D,OP_COND         40           RA         0/7/ORSELSCT_CAND	40         FT         80         80         FT           40         30         60         00         77           40         30         60         00         77           40         30         60         70         10         70           40         30         60         70         70         70         70           40         30         60         71         60         60         70         70         70         70           40         30         60         70	Information	Current stat Error me Current stat Error me Ident Stby	400.02 K. 400.02 K. 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz	CLook CHD Nor: 6 117 Nor: 40 117 Nor: 6 117 Nor: 6 117 Nor: 6 117 Nor: 6 117 Nor: 6 117 Nor: 6 117 Nor: 102 117 Nor: 102 117 Nor: 16 117 Nor: 17 117 Nor: 16 117 Nor: 17 117 Nor: 16 117 Nor: 16 117 Nor: 16 117 Nor: 17 117 Nor: 16 117 Nor: 17 117 Nor: 16 117 Nor: 17 Nor:	> Durat 1 1.480us 1.490us 1.480us	Navigator Discreption Command Data Error • Sector Count What Data Time(ns) Buay Time(ns)	Tures         Bytes           54         452           31121         1593           2         1593	0 ×
Times           1270           1271           1272           1273           1274           1275           1276           1277           1278           1279           1281           1281           1282           1283           1285           1285           1285	<pre>tamp (h113:13.020.0455.741 L. Remp1: 1 1133:13.020.0455.741 L. Remp1: 1 1133:13.021.040.122 L. (200.5551 1133:13.022.045.033 L. (200.5551 1133:13.022.045.033 L. (200.5551 1133:13.024.045.054 1133:13.024.045.054 1133:13.024.045.054 1133:13.024.045.054 1133:13.024.0555 1133:13.024.0555 1133:13.024.0555 1133:13.024.0555 1133:13.024.0555 1133:13.024.055 1133:13.025 1133:13.024.055 1133:13.025 1133:13.024.055 1135 1133:13.024.055 1135 1133:13.024 1133 1133 1</pre>	Kui         Date           B3         37           0.92 (2000)         41           0.83         37           0.92 (2000)         41           0.83         37           0.82 (2000)         41           0.83         37 <tr td=""></tr>	a           40         30         0         17           40         30         00         00           40         30         00         17           40         30         00         17           40         30         00         17           40         30         00         17           40         30         00         17           40         30         00         17           40         30         00         17           50         00         00         10           50         00         00         10           50         00         00         10           50         00         00         10           50         00         00         10           50         00         00         10           50         00         00         10           50         00         00         10           50         00         00         10           50         00         00         10           50         00         00         10           50 <th>Information</th> <th>Cerrent stat Error me Ident Ident Sthy Eduy</th> <th>400.023 K. 400.023 K. 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz</th> <th>CLOOK CHD Nor: 6 117 Nor: 5 117 Nor: 6 117 Nor: 6 117 Nor: 18 117 Nor: 18 117 Nor: 18 117 Nor: 18 117 Nor: 16 117 Nor: 16 117 Nor: 6 117 Nor: 6</th> <th><ul> <li>Durat.</li> <li>A80us</li> <li>480us</li> </ul></th> <th>Navigator Description Command Data Environ Environ Wall Data Time(ns) Busy Time(ns) Statistics Taxes</th> <th>Tuns         Bytes           54         4552           31121         1593           2         1593</th> <th>0×</th>	Information	Cerrent stat Error me Ident Ident Sthy Eduy	400.023 K. 400.023 K. 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz	CLOOK CHD Nor: 6 117 Nor: 5 117 Nor: 6 117 Nor: 6 117 Nor: 18 117 Nor: 18 117 Nor: 18 117 Nor: 18 117 Nor: 16 117 Nor: 16 117 Nor: 6	<ul> <li>Durat.</li> <li>A80us</li> <li>480us</li> </ul>	Navigator Description Command Data Environ Environ Wall Data Time(ns) Busy Time(ns) Statistics Taxes	Tuns         Bytes           54         4552           31121         1593           2         1593	0×
Times           1270           1271           1272           1273           1274           1275           1276           1277           1279           1280           1281           1282           1283           1285           1286           1287           1288           1285           1286	Totac         Totac         Totac         Totac           stam         (Dristin as one ddfr)         Meenil         Meenil           1113/13.200.405.741         Meenil         Meenil           1113/13.200.405.741         Constant         Meenil           1113/13.201.401.741         Constant         Constant           1113/13.201.401.741         Constant         Meenil           1113/13.201.401.741         Meenil         Meenil           1113/13.201.701.721         Constant         Meenil           1113/13.201.201.701.721         Meenil         Meenil           1113/13.201.201.701.721         Meenil         Meenil           1113/13.201.201.201.701.721         Meenil         Meenil           1113/13.201.201.201.721         Meenil         Meenil           11113/13.201.201.201.111	Nui         Date           63         37           64         37           65         69           69         000           60         60           60         60           60         60           60         60           60         60           60         60           60         60           60         60           60         60           60         60           60         60           60         60           60         60           61         60           62         60           64         60           67         61           67         61           60         60           61         60           61         61           61         61           61         61           61         61           61         61           61         61	40         17         60         10         17           40         30         60         00         7           40         30         60         00         7           40         30         60         00         7           40         70         60         00         7           40         70         60         00         7           40         70         60         00         7           40         70         60         00         7           40         70         60         00         7           60         80         00         00         00         00           60         60         60         7         10         10           60         60         60         00         10         10         10           60         60         60         20         10         10         10         10           60         60         60         20         10         10         10         10         10         10         10         10         10         10         10         10         10         10 <th>foreer interpretation</th> <th>SRAUSSU Cerrent stat from se Laest Laest Stay Stay Tras</th> <th>400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz</th> <th>Clock CHC Nor: 6 117 Nor: 6 137 Nor: 7 137 N</th> <th><ul> <li>Durat</li> <li>1.480us</li> <li>4.490us</li> <li>4.480us</li> </ul></th> <th>Navigator Deception Command Data Error Visit Data Timo(ns) Busy Time(ns) Statistics Taves</th> <th>Tures         Bytes           94         4512           31121         1593           2         1</th> <th>0×</th>	foreer interpretation	SRAUSSU Cerrent stat from se Laest Laest Stay Stay Tras	400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz 400.04 KHz	Clock CHC Nor: 6 117 Nor: 6 137 Nor: 7 137 N	<ul> <li>Durat</li> <li>1.480us</li> <li>4.490us</li> <li>4.480us</li> </ul>	Navigator Deception Command Data Error Visit Data Timo(ns) Busy Time(ns) Statistics Taves	Tures         Bytes           94         4512           31121         1593           2         1	0×
Times           1270           1271           1272           1273           1274           1275           1276           1278           1279           1270           1275           1276           1278           1279           1281           1282           1283           1284           1285           1286           1287           1286           1287           1286           1287           1286           1299	<pre>10000 11000010000 10000000000000000000</pre>	Kui         Date           B3         37           0,0,000         37           0,0,000         37           0,0,000         37           0,0,000         41           83         37           0,0,000         41           83         37           82         37           82         38           82         37           82         37           82         37           82         37           82         37           82         37           82         37           82         37           82         37           92         37           92         37           92         37           93         36           94         31           95         37           95         37           95         37           95         37           95         37           95         37           95         37           95         37           95         37	ta         F         0         0         F         0         0         F         0         0         F         0	Toroner introduction	SRAUSSO Cerrent stat From me Teams Zdens Zdens Suby Suby Tran	Bus           600.023 K.           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782           600.04 8782	Clock         OBD           Marr 6         117           Marr 10         117           Marr 12         111           Marr 12         117           Marr 12         117           Marr 12         117           Marr 14         117           Marr 15         117           Marr 16         117           Marr 17         118           Marr 18         117           Marr 18         117           Marr 18         117           Marr 18         117           Marr 19	) Durat = .400us .400us .492us .400us	Navigator Decempton Command Data State Sector Coart Wat Data Timo(ns) Buay Time(ns) Statistics Taxes	Tuns         Bytes           94         4512           31121         1993           2         2	(B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C
Times           1271           1271           1272           1273           1274           1275           1276           1277           1278           1279           1280           1281           1282           1284           1280           1281           1282           1284           1280           1280           1280           1280           1280           1280           1280           1280           1280           1280           1280           1280           1280           1280           1280           1280           1280	<pre>tamp (bits.sep.ed</pre>	Nun         Date           Bat         37           0,00,000         41           0,00,000         41           0,00,000         41           0,00,000         41           0,00,000         41           0,00,000         42           0,00,000         41           0,00,000         42           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,0	Image: 1         Image: 2	To come introduce one one Information	SRUUSU Carrent stat From see 		Clock         Ostr           Nor. 4         1           Nor. 6         1           Nor. 6         1           Nor. 6         1           Nor. 6         1           Nor. 1         1	> Durat. n - 400us - 492us - 480us - 480us	Navigator Disciplington Command Data Sector Coart Wat Data Timo(ns) Busy Time(ns) Statistics Tans	Tures         Bytes           94         4512           31121         1593           2         1	(B)
Times           1271           1271           1272           1273           1274           1275           1276           1277           1279           1279           1284           1282           1284           1285           1286           1287           1288           1289           1280           1280           1281           1282           1280           1281           1282           1280           1281           1282           1283           1284           1282           1284           1289           1280           1281           1282           1284           1282           1284           1282           1284           1282           1284           1284           1284           1284           1284           1284           1284	Note:         Note:         Note:         Note:           111111550.00000000000000000000000000000	Kui         Date           B3         37           0.95 COD         41           3.05 COD         42           3.05 COD         43           3.05 COD         43           3.05 COD         42           3.05 COD         43           3.05 COD         43           3.05 COD         43           3.12 Dytes         40           3.12 Dytes         40           3.12 Dytes         40           3.12 Dytes         44           3.12 Dytes         44           3.12 Dytes         45           <	xa           40 37 00 00 TF           40 30 00 00 77           40 30 00 00 77           40 30 00 00 77           40 30 00 00 77           40 30 00 00 77           40 30 00 00 77           40 30 00 00 77           40 30 00 00 77           40 30 00 00 77           40 30 00 00 77           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 74           40 30 00 00 00 74           40 40 00 00 00 74           40 40 00 00 00 74           40 40 00 00 00 74           40 40 00 00 00 00 74           40 40 00 00 00 00 74           40 40 00 00 00 00 00 00 00 00 00 00 00 0	South Main Constant State Stat	SRUUSU Carrent stat Error me laent Staby Fran Tran	Image:	Clock         CHO           Mart 6         11           Nete 100         11           Nete 100 <th>&gt; Durat 1 40014 400000000</th> <th>Naxigator Decorption Command Error Sector Coart Vida Data Tindyta) Bouy Time(ice) Seatistics Tana</th> <th>Tons         Bytes           3421         1553           2         1           5ytes         1</th> <th>0 S S</th>	> Durat 1 40014 400000000	Naxigator Decorption Command Error Sector Coart Vida Data Tindyta) Bouy Time(ice) Seatistics Tana	Tons         Bytes           3421         1553           2         1           5ytes         1	0 S S
Communication           Times           2271           1272           1273           1274           1275           1276           1277           1278           1279           1270           1281           1282           1284           1285           1280           1280           1281           1282           1283           1284	<pre>Vieworking2</pre>	Nui         Detect           B3         37           0,00,000         41           0,00,000         41           8,00         19           8,00         19           8,00         19           8,00         19           8,00         19           8,00         19           8,00         10           9,0000         14           8,00         10           9,0000         42           8,00         10           9,000,000         43           8,00         10           9,000,000         49           8,1         10           9,000,000         49           9,000,000         49           9,000,000         49           9,000,000         49           9,000,000         49           9,000,000         49           9,000,000         49           9,000,000         49           9,000,000         49           9,000,000         49           9,000,000         49           9,000,000         49           10,000         49	ta         ta           40         30         00         77           40         30         00         00         70           40         30         00         70         10           40         70         00         00         70           40         71         00         00         70           40         71         00         00         70           40         71         00         00         70           40         71         00         00         70           40         71         00         00         70           60         00         70         00         70           60         00         70         00         70           60         00         70         70         70           60         00         00         70         70           60         00         70         70         70           70         70         70         70         70           70         70         70         70         70           70         70         70         70	Covers introduce of the Carlo	SRUCES	base           400.03 K.           400.04 KR	Clock         CHO           Marc 4         0.10           Marc 1         0.10           Marc 1         0.10           Marc 1         0.10           Marc 1         0.11           Marc 1 <th>) Durat. 7 (480128 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028) (48028 (48028) (48028) (48028) (48028 (48028) (48088) (</th> <th>Naxigator Decorption Command Data Data Data Sector Coart Wat Data Time(ns) Busy Time(ns) Statistics Taxes</th> <th>Tons         Bytes           34:1         4512           32:1         1993           2         1993</th> <th>© 25</th>	) Durat. 7 (480128 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028 (48028) (48028 (48028) (48028) (48028) (48028 (48028) (48088) (	Naxigator Decorption Command Data Data Data Sector Coart Wat Data Time(ns) Busy Time(ns) Statistics Taxes	Tons         Bytes           34:1         4512           32:1         1993           2         1993	© 25
Communication           1         1.0000           2271         1.0000           2271         1.0000           2272         1.0000           2274         1.0000           1275         1.0000           1276         1.0000           1277         1.0000           1278         1.0000           1281         1.0000           1282         1.0000           1283         1.0000           1284         1.0000           1285         1.0000           1290         1.0000           1291         1.0000           1293         1.0000           1294         1.0000           1295         1.0000	<pre>tamp (Dura in an an after 1 tamp (Dura in an an after 1 tamp (Dura in an an after 1 tamp (Dura in a after 1 tamp (Du</pre>	Kui         Date           Ba         Ja           0.90000         Ja           0.900000         Ja           0.900000         Ja           0.90000000         Ja           0.9000000000         Ja           0.900000000000000000000000000000000000	is         is           40         00         07         10         07         10         17         10         00         17         10 </td <td>100000 UNIONS ON ONE Information 5001 WaitTime:6.29959ms 5001 WaitTime:64.29959ms 5001 WaitTime:164.977us</td> <td>SRUUSD Cerrent stat From me </td> <td>Normalization           00.023 K.           00.023 K.           00.023 K.           00.023 K.           00.02 K.</td> <td>Clock         CHI           Norr         6         117           TRC:         40         117           Norr         6         127           TRC:         40         12           Norr         60         121           TRC:         40         121           Norr         60         131           Norr         60         131           Norr         100         131           Norr         100         131           Norr         100         131           Norr         13         131</td> <td>) Durat. 7 3 480128 480228 480228 48008 48028 48008 48008 48008 48008 48008 48008 48008 48000</td> <td>Navigator Decempton Command Data Sector Count Wat Data Timo(ns) Busy Time(ns) Statistics Ture</td> <td>Tuns         Bytes           94         4512           31121         1993           2         9           Bytes         9</td> <td>© 55</td>	100000 UNIONS ON ONE Information 5001 WaitTime:6.29959ms 5001 WaitTime:64.29959ms 5001 WaitTime:164.977us	SRUUSD Cerrent stat From me 	Normalization           00.023 K.           00.023 K.           00.023 K.           00.023 K.           00.02 K.	Clock         CHI           Norr         6         117           TRC:         40         117           Norr         6         127           TRC:         40         12           Norr         60         121           TRC:         40         121           Norr         60         131           Norr         60         131           Norr         100         131           Norr         100         131           Norr         100         131           Norr         13         131	) Durat. 7 3 480128 480228 480228 48008 48028 48008 48008 48008 48008 48008 48008 48008 48000	Navigator Decempton Command Data Sector Count Wat Data Timo(ns) Busy Time(ns) Statistics Ture	Tuns         Bytes           94         4512           31121         1993           2         9           Bytes         9	© 55
20000000           1271           1272           1272           1272           1272           1272           1273           1274           1275           1276           1277           1278           1279           1284           1282           1284           1286           1287           1284           1286           1287           1284           1286           1287           1284           1284           1285           1284           1284           1285           1284           1284           1285           1284           1284           1285           1284           1284           1284           1284           1284           1284           1284           1284           1284           1284           1284           1284           1284	Theorem 1 resources and deri Newst tangs (him is and deri Newst 1113313-021-000-132 i. (CHO) Sent 1113313-021-000-132 i. (CHO) Sent 1113313-021-000-132 i. (CHO) Sent 1113313-021-004-021 i. Resp01 i 1113313-022-054-003 i. (CHO) Sent 1113313-022-054-003 i. (CHO) Sent 1113313-022-054-003 i. (CHO) Sent 1113313-022-054-003 i. (CHO) Sent 1113313-024-054-021 i. (CHO) Sent 1113313-024-058-021 i. (CHO) Sent 1113313-024-058-021 i. (CHO) Sent 1113313-024-058-021 i. (CHO) Sent 1113313-024-058-024 i. (CHO) Sent 1113313-024-054-044 i. Resp0 1113313-024-054-044 i. Resp0 1113313-024-054-044 i. Resp0 1113313-024-054-044 i. Resp0 1113313-024-054-044 i. Resp0 1113313-024-064-044 i.	Kui         Description           Bat         Bat           0.9000         41           0.9000         43           0.90000         43           0.90000         43           0.90000         43           0.90000         43           0.90000         43           0.90000         43           0.90000         43           0.90000         43           0.90000         43           0.90000         43           0.90000         43           0.900000         43           0.900000         43           0.900000         43           0.900000         43           0.900000         43           0.900000         43           0.900000         43           0.9000000         43           0.90000000         43           0.900000000000000000000000000000000000	Image: constraint of the second sec	Deven introduce of the outer of	SRUUSU Cerrent stat From see Interest Interest Interest Ideas Interest Stay Interest S		Clock         OHD           Norr         6         11           Recr         40.1         12           Recr         6         12           Recr         6         12           Recr         6         13           Recr         6         13           Recr         6         13           Recr         6         13           Recr         14         14           Recr         12         11           Merr         12         11           Merr         12         11           Merr         13         13           Recr         13         13           Merr         13         13           Recr         14         14           Merr         14         14           Merr         13         13           Recr         14         14           Recr         13         13           Recr         14         14           Recr         14         14           Recr         14         14           Recr         14         14           Recr <td< th=""><th>- 480us - 480u</th><th>Navigator Disciplington Command Data State Sector Coart Wat Data Time(ns) Busy Time(ns) Statistics Tune Statistics Tune</th><th>Tures         Bytes           94         4512           31121         1593           2         9/100</th><th>© 5 1131</th></td<>	- 480us - 480u	Navigator Disciplington Command Data State Sector Coart Wat Data Time(ns) Busy Time(ns) Statistics Tune Statistics Tune	Tures         Bytes           94         4512           31121         1593           2         9/100	© 5 1131
Connect           1210           1271           1272           1273           1274           1275           1270           1271           1272           1273           1274           1275           1270           1281           1282           1292           1293           1295           1295           1295           1295           1295	Nonconstruction         Nonconstruction           stage         (histors are and def)         Newsit           1113113-520-6812-1         Respit 1         Respit 2           1113113-520-6812-1         Respit 2         Respit 1           1113113-520-6812-1         Respit 2         Respit 1           1113113-520-6812-1         Respit 1         Respit 2           1113113-520-6812-1         Respit 1         Respit 1           1113113-520-6912-1         Respit 1         Respit 1           1113113-520-692-20-1         Respit 1         Respit 1           1113113-520-692-30-21-1         Respit 1         Respit 1           1113113-520-692-52-1         Respit 1         Respit 1           1113113-520-692-52-1         CROD 3522         Respit 1           1113113-520-692-52-1         CROD 3522         CROD 3522           1113113-520-692-52-1         Respit 1         Respit 1           1113113-520-692-684-1         Respit 1         Respit 1	Num         Date           A3         Date           A4         0.90           A5         0.90           A6         0.90           A7         0.90           A8         97           A9         97           A9         97           A9         97           A9         92           A9         92           A1         0.90           A2         0.90           A2         0.90           A2         0	40         70         80         87           40         70         80         87           40         70         80         87           40         70         80         87           40         70         60         80           40         70         60         80           40         70         60         80           40         70         60         80           40         70         60         80           40         70         80         80           60         80         80         70           60         80         80         70           60         80         80         70           60         80         80         70           60         80         80         70           70         80         80         70           80         90         80         70           80         90         90         70           80         90         80         80           80         80         80         80           80         80         80<	Down whow dwords Information	SIGUSU Cerrent stat Error me lanat Ident I	Note:         Note: <td< th=""><th>Clock         CH20           Ner: 40         137           Ner: 100         137           Ner: 100         137           Ner: 9         147           Ner</th><th>P Durat 2 - 480us - 480us -</th><th>Naxigator Description Command Error Brand Sector Coart Vida Data Tino(ns) Bruy Time(ns) Seatistics Tares Detail Naxigator</th><th>Tores Bytes 3421 1953 2421 1953 Eytes Hide Rems</th><th>1131</th></td<>	Clock         CH20           Ner: 40         137           Ner: 100         137           Ner: 100         137           Ner: 9         147           Ner	P Durat 2 - 480us -	Naxigator Description Command Error Brand Sector Coart Vida Data Tino(ns) Bruy Time(ns) Seatistics Tares Detail Naxigator	Tores Bytes 3421 1953 2421 1953 Eytes Hide Rems	1131
Connect           27           1271           1272           1273           1274           1274           1276           1270           1270           1271           1272           1273           1274           1275           1270           1270           1270           1270           1270           1270           1270           1280           1281           1283           1285           1296           1290           1292           1293           1294           1292           1293           1294           1292           1293           1294           1295           1295           1295           1295           1295           1295           1295           1295           1295           1295           1295           1295           1295	Total         Total         Total         Total         Total           tamp         (hirad)         1.0	Num         Dest           83         37           0,00,000         41           3,00         90           0,00         91           3,00         92           3,00         92           3,00         93           3,00         93           3,00         94           3,00         94           3,00         94           3,00 <th>ta         ta           40         30         00         77           40         30         00         00         70           40         30         00         00         70           40         70         00         00         70           40         70         00         00         70           40         70         00         00         70           40         70         00         00         70           40         70         00         00         70           40         70         00         00         70           40         70         00         70         70           40         70         00         70         70           40         70         00         70         70           40         70         00         70         70           40         70         20         70         70           60         70         70         70         70           70         70         70         70         70           70         70         70         70</th> <th>Dover whore diverses</th> <th>SRUCES</th> <th>base           400.03 K.           400.04 KR           400.</th> <th>Clock CH C C C C C C C C C C C C C C C C C C</th> <th>Porrat () - 450us - 450us</th> <th>Naxigator Decorption Command Data Data Data Sector Coart Viat Data Time(ns) Data Data Data Statistics Tows</th> <th>Tons Bytes 34:21 45:22 22 15:33 2 Bytes Hide Rems</th> <th>0 × ×</th>	ta         ta           40         30         00         77           40         30         00         00         70           40         30         00         00         70           40         70         00         00         70           40         70         00         00         70           40         70         00         00         70           40         70         00         00         70           40         70         00         00         70           40         70         00         00         70           40         70         00         70         70           40         70         00         70         70           40         70         00         70         70           40         70         00         70         70           40         70         20         70         70           60         70         70         70         70           70         70         70         70         70           70         70         70         70	Dover whore diverses	SRUCES	base           400.03 K.           400.04 KR           400.	Clock CH C C C C C C C C C C C C C C C C C C	Porrat () - 450us - 450us	Naxigator Decorption Command Data Data Data Sector Coart Viat Data Time(ns) Data Data Data Statistics Tows	Tons Bytes 34:21 45:22 22 15:33 2 Bytes Hide Rems	0 × ×
20110000           2220           2221           2221           2222           2223           2224           2225           2276           2272           2273           2274           2275           2276           2277           2280           2281           2282           2280           2280           2280           2280           2280           2280           2280           2280           2280           2280           2280           2280           2280           2281           2282           2283           2284           2284           2284           2284           2284           2284           2284           2284           2284           2284           2284           2284           2284           2284           2284           2284	THOSE         THOSE (************************************	Kui         Date           Bat         37           0.9 C000         41           0.9 C000         41           0.9 C000         41           0.9 C000         41           0.9 C000         42           0.9 C000         43           0.9 C000         46           0.9 C000         46           0.9 C000         46           0.9 C000         46           0.9 C000	ta         ta           40 30 00 FF         00 FF           40 30 00 00 37         00 77           40 30 00 00 37         00 77           40 30 00 00 37         00 77           40 30 00 00 37         00 77           00 00 00 00 40         00 70           40 30 00 30 40         31 40           00 00 00 00 40         31 40           40 30 00 70 00 40         31 40           40 30 00 70 00 40         31 40           50 07 00 70 70 70         75 50 30           50 07 00 70 70 70 70         75 70           50 00 00 00 00 70 00 70         70 70           50 00 00 00 00 70 00 70         70 70           50 00 00 00 00 00 00 00 00         70 00 00 00 00           50 00 00 00 00 00 00 00 00         70 00 00 00 00           50 90 00 71 00 73         70 73           50 90 00 71 00 73         70 73           50 90 00 71 00 73         70 74           50 90 00 71 00 73         70 74           50 90 00 71 00 73         70 74           50 90 00 71 00 73         70 74           50 90 00 71 00 73         70 74           50 90 00 71 00 73         70 74           50 90 00 71 00 73         70 74           <	Developmention	SRAUSSU Cerrent stat From me and the second stat from me second st	Not           400.023 K.           400.023 K.           400.023 K.           400.02 K.           400.01 KR           40	Clock         CHE           Ner:         6         11           Rer:         6         12           Ner:         62         13           Rer:         6         12           Ner:         62         13           Ner:         62         14           Ner:         14         14           Ner:         15         14           Ner:         13         14           Ner:         9         14           Ner:         9         12           Ner:         9         12           Ner:         140         140	0 000000 4 4 6 00000 4 6 90000 4 6 900000 4 6 900000 4 6 900000000000000000000000000000000000	Navigator Disciplion Command Data Data Data Data Data Data Data Dat	Tuns         Bytes           94         4512           3121         1933           2         9,945	© 55
Connect     T ines     T in	Total         Total         Total         Total           tamp         (hin is an one dur)         Nemetic           tamp         (hin is an one dur)         (hin is an one dur)           tamp         (hin is an one dur)         (hin is an one dur)           tamp         (hin is an one dur)         (hin is an one dur)           tamp         (hin is an one dur)         (hin is an one dur)           tamp         (hin is an one dur)         (hin is an one dur)           tamp         (hin is an one dur)         (hin is an one dur)           tamp         (hin is an one dur)         (hin is an one dur)           tamp         (hin is an one dur)         (hin is an one dur)           tamp         (hin is an one dur)         (hin is an one dur)           tamp         (hin is an one dur)	Kui         Detect           Bat         37           0,00,000         41           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,00,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         43           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44           0,000,000         44	ta         ta           40         00         FF         00         00         FF           40         00         00         00         00         10         10           40         00         00         00         10 <th>Decemination</th> <th>SRUUSU Current stat Error se</th> <th>Image: Section of the sectio</th> <th>Clock CHI Norr 6 (1) There 40, 127 There 40,</th> <th>A (000)     A (000)     A</th> <th>Navigator Disciplion Command Data Data Data Data Data Data Sector Cont Viat Data Time(ns) BusyTime(ns) Statistics Tons Detail Navigator</th> <th>Tures         Bytes           94         4512           31121         1593           2         9           Bytes         9           Hide Rems         1000</th> <th>0.0</th>	Decemination	SRUUSU Current stat Error se	Image: Section of the sectio	Clock CHI Norr 6 (1) There 40, 127 There 40,	A (000)     A	Navigator Disciplion Command Data Data Data Data Data Data Sector Cont Viat Data Time(ns) BusyTime(ns) Statistics Tons Detail Navigator	Tures         Bytes           94         4512           31121         1593           2         9           Bytes         9           Hide Rems         1000	0.0
201         11.000           2701         12.000           2711         12.000           2723         12.000           1274         12.000           1275         12.000           1276         12.000           1277         12.000           1270         12.000           1280         12.000           1280         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000           1290         12.000	Total         Total         Total         Total         Total           tamp         (hin 1, 200, 405, 741 ⊥         Resp01 1         Starting           tail 13:13, 202, 405, 741 ⊥         Resp01 1         Starting         Total           tail 13:13, 202, 405, 741 ⊥         Resp01 1         Starting         Total           tail 13:13, 202, 402, 122, 123         Close, 200, 201, 201, 201, 201, 201, 201, 201	Num         Date           Bat         37           0.09         0000         49           0.09         0000         49           0.09         0000         49           0.09         0000         49           0.09         0000         49           0.09         0000         49           0.09         0000         49           0.09         0000         49           0.09         0000         49           0.09         0000         49           0.02         000         49           0.02         000         49           0.02         000         49           0.02         000         49           0.02         000         49           0.02         000         512           0.02         000         512           0.03         012         14           0.03         013         14           0.03         013         14           0.04         46           0.05         000         14           0.05         000         14           0.05         00	ta         F ta         ta           ta         J ta         0 ta         0 JT           ta         J ta         0 ta         0 JT           ta         J ta         0 ta         0 JT           ta         J ta         0 ta         0 ta           ta         J ta         J ta         J ta         J ta           ta         J ta         J ta         J ta         J ta           ta         J ta         J ta         J ta         J ta           ta         J ta         J ta         J ta         J ta           ta         J ta         J ta         J ta<	Information	SHOLUSD           Cerrent stat from set           International stat from set           Internatinterinter	Encode Vision     Encode	Clock CH 201 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Navigator Description Command Denny Denny Denny Sector Coart Viat Data Time(ns) Dusy Time(ns) Statistics Tores Statistics Tores Detail Navigator	Tores         Bytes           34221         1593           2         1593	(P)
Connect 2010 2020 20	TODOC         TODOC <t< td=""><td>Num         Dest           B3         37           0.00         0.00</td><td>Is         Is         Is           40 30 00 77         00 00 77           40 30 00 00 77         00 00 77           40 37 00 00 77         00 77           40 77 00 00 77         07           40 77 00 00 77         07           40 77 00 00 77         07           40 77 00 00 77         07           40 77 00 00 77         07           40 77 00 00 77         07           40 77 00 00 77         07           40 70 00 00 70         07           40 70 00 00 70 00 70         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 00 00 00 00 00 00         00           40 70 00 00 00 00 00 00 00         00           40 70 00 00 00 00 00 00 00 00           40 00 00 00 00 00 00 00           40 00 00 01 1 Ab 07           40 00 00 00 00 00 00 00 00           40 00 00 00 00 00 00 00           40 00 00 00 00 00 00 00 00           40 00 00 00 00 00 00 00 00  &lt;</td><td>Covers introp one one Information  Sori WaitTime:4.24555ms  Sori WaitTime:1.0451ms  BunyTime:1.0045ims  Libonoice</td><td>SHOUSD           Carrent stat From set           Image: Stat Strom set           Image: S</td><td></td><td>Clock CBC Rec: 40 137 Rec: 40 127 Rec: 40</td><td>A (190)     A (190)     A</td><td>Naxigator Disciplion Command Data Data Data Data Data Data Data Dat</td><td>Tons         Bytes           34:1         45:12           32:1         1993           2         1993</td><td></td></t<>	Num         Dest           B3         37           0.00         0.00	Is         Is         Is           40 30 00 77         00 00 77           40 30 00 00 77         00 00 77           40 37 00 00 77         00 77           40 77 00 00 77         07           40 77 00 00 77         07           40 77 00 00 77         07           40 77 00 00 77         07           40 77 00 00 77         07           40 77 00 00 77         07           40 77 00 00 77         07           40 70 00 00 70         07           40 70 00 00 70 00 70         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 70 07         07           40 70 00 00 00 00 00 00 00         00           40 70 00 00 00 00 00 00 00         00           40 70 00 00 00 00 00 00 00 00           40 00 00 00 00 00 00 00           40 00 00 01 1 Ab 07           40 00 00 00 00 00 00 00 00           40 00 00 00 00 00 00 00           40 00 00 00 00 00 00 00 00           40 00 00 00 00 00 00 00 00  <	Covers introp one one Information  Sori WaitTime:4.24555ms  Sori WaitTime:1.0451ms  BunyTime:1.0045ims  Libonoice	SHOUSD           Carrent stat From set           Image: Stat Strom set           Image: S		Clock CBC Rec: 40 137 Rec: 40 127 Rec: 40	A (190)     A	Naxigator Disciplion Command Data Data Data Data Data Data Data Dat	Tons         Bytes           34:1         45:12           32:1         1993           2         1993	
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1274		11:13:	3.922.995.500	1 Res	p01 R3		3F 40 FF	80 80 FF								400.04	Nor: 6	117.48	Sus	Busy Time(ns)				
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1279		11:13:	3.925.885.221	3 CMD03	SEND I	RELATIVE ADDR	43 00 00	00 00 21								400.04	Hz Nrc: 1	117.48	Bus					
1280		11:13:	3.926.035.206	1 Res	p03 R1	-	03 00 00	05 00 FB					I	lent			Nor: 1	117.49	lus					
1281		11:13:	3.926.192.693	1 CMD09	SEND (	CSD	49 00 00	00 00 AF								400.04	Hz Nrc: 1	117.48	Bus					
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1284		11:13:	13.926.845.128	1 Res	p13 R1		0D 00 00	07 00 FB					St	:by			Nor: 6	117.48	Jus		oyte.		_	-
1285		11:13:	13.927.005.112	1 CMD07	SELECT	T/DESELECT_CARE	47 00 00	00 00 83								400.04	KHz Nrc: 1	117.49	Zus					
1296		11:13:	3.927.155.101	1 Res	p07 R1		07 00 00	07 00 75					St	by.			Nor: 1	117.48	lus					
1287	•	11:13:	3.927.320.084	1 CMD08	SEND_I	EXT_CSD	48 00 00	00 00 C3								400.04	KHz Nrc: 1	117.48	Bus					
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1294		11:13:	3.953.045.101	1	Busy a	start																		
1295		11:13:	3.953.070.105	2 Res	p06 R13	b	06 00 00	08 00 CB					T	an				117.48	Bus					
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12	36	11:13:	13.898.172.88	9 2.07ms	CHDO	8 SEND_EXT_CSD		8 00 00 01	AA 87								400.04 KHz	Ncc: 784	117.492u					
12	87	11:13:	13.927.320.08	4 164.98us	CMDO	8 SEND_EXT_CSD		8 00 00 00	0 00 C3								400.04 KHz	Nrc: 19	117.488u					1
12	90	11:13:	13.942.153.65	4 10.31ms	CMDO	8 SEND_EXT_CSD		8 00 00 00	0 00 C3								400.023 K	Nrc: 13	117.492us					4
12	99	11:13:	13.954.507.46	5 167.48us	CMDO	8 SEND_EXT_CSD		8 00 00 00	0 00 C3								400.04 KHz	Nrc: 19	117.488us					4
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