Acute BusFinder

Protocol Analyzer & Logic Analyzer

270 x 175 x 55 (mm³)

- PC-based, 64 channels
- USB 3.0 interface, 12V power adaptor
- 32Gb total memory

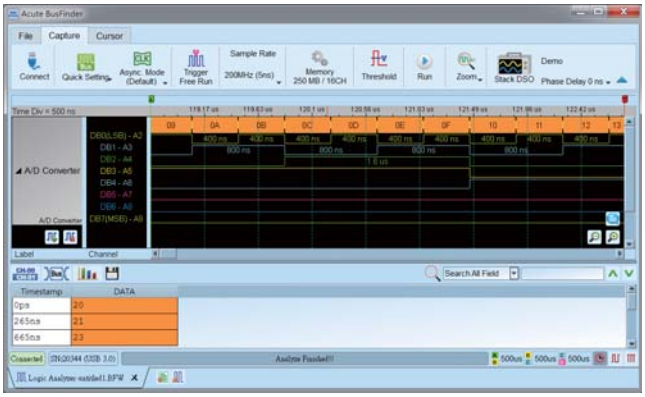
Protocol Analyzer: eMMC 5.1, MIPI D-PHY 1.2, NAND Flash, SD 3.0 (SDIO 3.0), SD 4.1 (UHS-II), SGMII, UFS2.1

- Real-time data display, post-capture waveforms
- Trigger for commands or data
- Different active probes for different protocols for easier connections
- Filter data to save more commands
- Hide data for easy reading
- Search data for quick finding
- Statistics for commands and data
- Two voltage detects to find design flaws from voltage drop
- Use PC hard disk drive (SSD) for long time recording
- Protocol monitor like dash camera for long time surveillance (months)

Logic Analyzer / LVDS: eMMC 5.1, NAND Flash, SD 3.0 (SDIO 3.0), Serial Flash, SPI

- 4GHz timing analysis
- 8-state flow chart bus triggers
- Protocol decodes with waveforms
- Stacks with a DSO to form as an MSO

Software Window



System Requirements

- USB 3.0 port
- Win 7, Win 8, Win 10, Win11
- PC RAM 16GB (recommended) or 8GB at least

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PC-based T&M Instruments
Acute Technology Inc.
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BusFinder 7264Pro

Device : 800g
Accessories : 1216g


Device *1

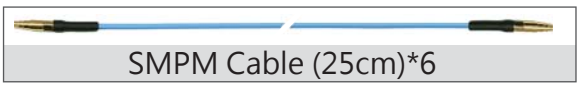

BNC to MCX cable *1

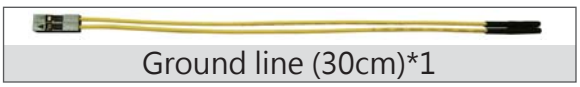

Power Adapter*1


USB3.0 cable (1.8M) *1

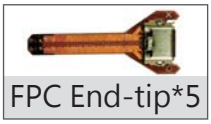
SGMII Option

weight : 410g


SMPM Cable (25cm)*6


Ground line (30cm)*1


SMPM Extraction Tool*1

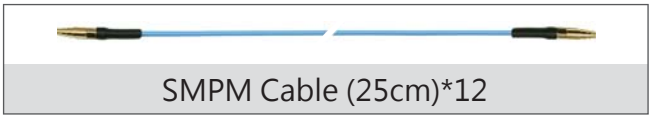

FPC End-tip*5

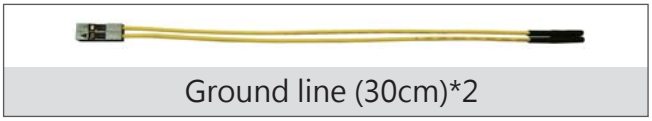

Connector*3

SGMII Way Station*1 / Micro USB 3.0*1

eDP1.4a Option

weight : 520g

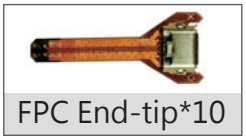

SMPM Cable (25cm)*12


Ground line (30cm)*2


SMPM Extraction Tool*1

Main Link Way Station*2 / Aux-tip*1 / Micro USB 3.0*2

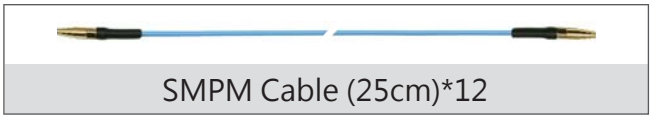

Flying lead cable (DP_Aux)

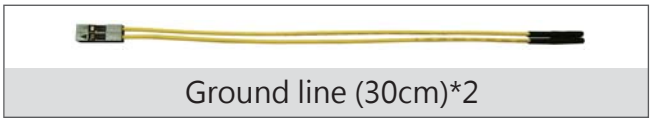

FPC End-tip*10


Connector*10

MIPI D-PHY Option

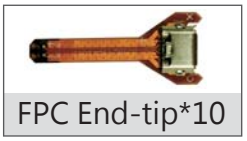
weight : 410g


SMPM Cable (25cm)*12


Ground line (30cm)*2

MIPI D-PHY Way Station*2
Micro USB 3.0*2


SMPM Extraction Tool*1

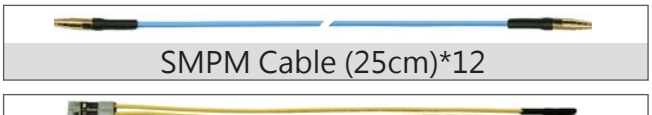

FPC End-tip*10

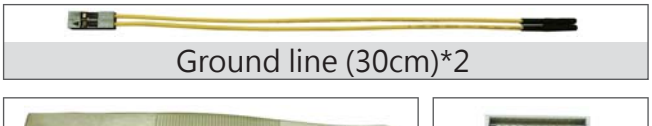

Connector*10

UFS 2.1 Option

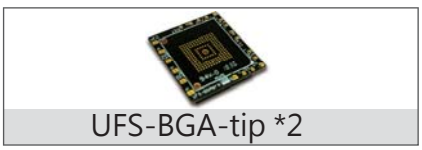
weight : 550g

MIPI M-PHY Way Station*2
UFS-tip*1


SMPM Cable (25cm)*12


Ground line (30cm)*2

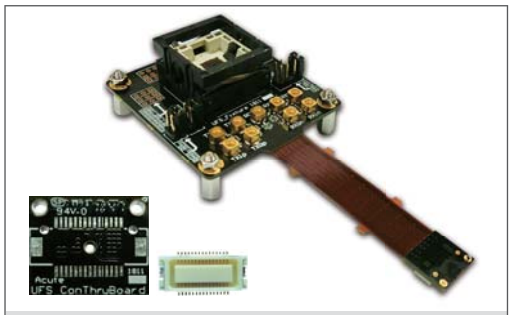

SMPM Extraction Tool*1


UFS-BGA-tip *2


FPC End-tip*10


Connector*5


Flying lead cable (UFS)



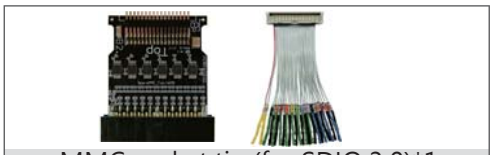
Con Fixture*1
Con Dummy Board & Connector *5


Micro USB 3.0*2

SD 3.0 / SDIO3.0 Option

weight : 160g

LA04 (B)-tip*1



eMMC socket tip (for SDIO 3.0)*1 + Flying lead cable*1

eMMC welding tip (for SDIO 3.0)*4

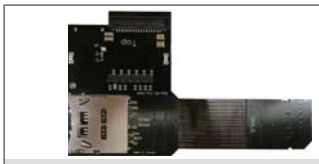
SD 3.0 tip*1

SD 4.1 Option

weight : 420g

SD 4.1 & uSD 4.1 Probe

LA04 (B)-tip*2



SD4.1-tip*1

Micro USB 3.0*2

uSD4.1-tip*1

NAND Flash Option

weight : 450g

LA08-tip*1/LA09-tip*2
NAND-tip*1

Flying lead cable(NF)*4

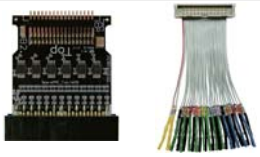
Grippers*40

eMMC 5.1 Option

weight : 230g

LA04 (B)-tip*1

❶



eMMC socket tip (for SDIO 3.0)*1 + Flying lead cable*4

❷

eMMC welding tip*4

LVDS Option

weight : 450g

LA08-tip*1/LA09-tip*2
LVDS-tip*1

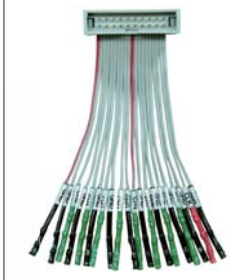
Flying lead cable(LVDS)*4

Grippers*40

LA-POD 2 or LA4G-POD Option

weight : 450g

LA08-tip*2 / 1
LA09-tip*2 / 1



Flying lead cable(LA)*4 / 2

Grippers* 40 / 20

Tip specification

*SE: Single Ended, Diff.: Differential Pair

Model		LVDS	LA08/09	LA04 (B)	NAND, UFS	eMMC, SD 3.0	SD 4.1, uSD 4.1	End-tip
Number of Channels		8-Diff.	8 / 8+1 (Data+CLK)	4 (Data)	4+2 (Data+Analog)	12+2 (Data+Analog)	6-SE / 3-Diff. / 2 (SD3.0 / SD4.1 / Analog)	1-Diff.
Threshold of Data	Range	---	±15V	-0.5V ~ +4.8V		0V ~ +3.3V		---
	Resolution	---	10mV	21mV				---
	Accuracy	---	±100mV + 5% *Vth					---
Input Voltage of Data	Maximum (Non-destructive)	-0.5V ~ +4.6V DC+AC peak	±40V DC+ AC peak	±15V DC+AC peak		-0.5V ~ +5V DC+AC peak		±10V
	Operation	0V ~ 3.3V	±15V	-1V ~ 8V		0V ~ 3.3V		0 ~ 5V
	Sensitivity	~100mV	~300mV			~150mV		~200mVpp.
Impedance of Data		75K Ω || 3pF	~ 55KΩ || <2pF to 1Vdc	1MΩ || 5pF		500kΩ || 2pF		[1] 1kΩ || (500+1pF) [2] 250Ω
Input Voltage of Analog	Maximum (Non-destructive)	---			-0.5V ~ +8V DC+AC peak			---
	Operation	---			0V ~ 4V			---
	Resolution	---			~1mV			---
	Sampling Rate	---			1M			---
Impedance of analog		---			1MΩ || 100pF			---

[1] D-PHY [2] UFS2.1 / SGMII

BusFinder

Model		BF7264Pro
Power	Power Source	12V Power adapter
	Static Power Consumption	18W
	Max Power Consumption	45W
Hardware Interface		USB 3.0
Timing Analysis (Asynchronous, Max. Sample Rate)		4GHz*
State Clock Rate (Synchronous, External Clock)		400MHz
Storage		Conventional Timing, Transitional Timing
Channels (Data / Clock)		64/4
Total Sample Memory		32 Gb
Timing vs. Channels vs. Memory	Timing Analysis	Available channels (Conventional / Transitional Timing) - Memory per channel
	4GHz*	16/16 - 2Gb
	2.4 / 2GHz	32/32 - 1Gb
	1GHz/ 500, 250, 200MHz	64/64 - 500Mb
Trigger	Resolution	250 ps*
	Channels	64
	States	8
	Events	8
	Pre / Post / Delay	Yes
	Pass Counter	Yes (1 ~ 1000000 times)
	Types	Channel, Pattern, Single / Multi Level, Width, Time-out, External
	Bus (by option)	eMMC 5.1, NAND Flash, SD 3.0 (SDIO 3.0), Serial Flash (SPI NAND), SPI
Input Voltage	Maximum	See Tip specification
	Sensitivity	See Tip specification
Impedance		See Tip specification
Temperature	Operating / Storage	5℃~45℃ (41℉~113℉)/-10℃~65℃ (14℉~149℉)
Channel to channel skew		< 250 ps*
I/O port	Trig-In	TTL 3.3V level (Rising / Falling)
	Trigger pulse approval	> 8ns
	Trig-Out	TTL 3.3V
	Ref. Clock Input	10MHz, Vpp=3.3 to 5V
	Ref. Clock Output	10MHz, TTL3.3V
	Connector type	MCX jack/female
Protocol Option	eDP 1.4a	SMPM Cable / End-tip / Flying lead cable
	eMMC 5.1	Flying lead cable / Gripper
	MIPI D-PHY 1.2	SMPM Cable / End-tip
	NAND Flash	Flying lead cable / Gripper
	SD 3.0 / SDIO 3.0	SD 3.0 extender card / SDIO 3.0 extender card & Flying lead cable
	SD 4.1	SD 4.0 extender card (covers SD 3.0)
	SGMII	SMPM Cable / End-tip
	UFS 2.1	Con Fixture / SMPM Cable / End-tip
	LA-POD 2 or LA4G-POD	Flying lead cable / Gripper
	LVDS	Flying lead cable / Gripper
Software Features	Zoom In / Out	Yes
	Languages	English / Traditional Chinese / Simplified Chinese
	Waveform Height	Adjustable
	Tools and quick settings	Zoom/ Report Window, Quick Cursor-positioning/ Protocol Decode Setup, Import Label(s)
	Trigger / Auxiliary cursors	1/25
	Protocol Decode	eMMC 5.1, NAND Flash, SD 3.0, Serial Flash (SPI NAND), SPI
Dimension	L x W x H	270 x 175 x 55 (mm³)

※ For BF7264Pro, the maximum delivery Gripper number is 80 Grippers per mainframe unit.

* Optional LA4G-POD needed.

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