

# BusFinder

Model	BF7264B	BF7264B+
Power Source	12V Power adapter	
Power	Static Power Consumption	18W
	Max Power Consumption	45W
	Hardware Interface	USB 3.0
Timing Analysis (Asynchronous, Max. Sample Rate)	2.4GHz	
State Clock Rate (Synchronous, External Clock)	300MHz	
Storage	Conventional Timing, Transitional Timing	
Channels (Data / Clock)	64/4	
Total Sample Memory	32 Gb	
Timing vs. Channels	Timing Analysis	Available channels (Conventional / Transitional Timing) - Memory per channel
	2.4 / 2GHz	(32 / 28) - 1Gb
	1GHz	(64 / 56) - 500Mb
Timing vs. Memory	500 / 250 / 200MHz	(64 / 64) - 500Mb
	Resolution	416 ps
	Channels	64
Trigger	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
	Sensitivity	See Tip specification
Impedance	See Tip specification	
Temperature	Operating / Storage 5°C~45°C (41°F~113°F)/-10°C~65°C (14°F~149°F)	
Channel to channel skew	< 500 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	eMMC 5.1
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)
UFS 2.1		Con Fixture / SMPM Cable / End-tip
Logic Analyzer	Flying lead cable / Gripper	
Software Features	Zoom In / Out	Yes
	Languages	English / Traditional Chinese / Simplified Chinese
	Waveform Height	Adjustable
	Zoom / Report Window	Yes
	Quick Cursor-positioning	Yes
	Import Label(s)	Yes
	Quick Bus Decode Setup	Yes
	Trigger / Auxiliary cursors	1/25
	Bus 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)	
Weight	See Protocol Option	

※ For BF7264B / B+, the maximum delivery Gripper number is 80 Grippers per mainframe unit.

MIPI D-PHY,UFS,SD,eMMC,NAND Flashの強力な  
プロトコルアナライザ兼ロジックアナライザ

# 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

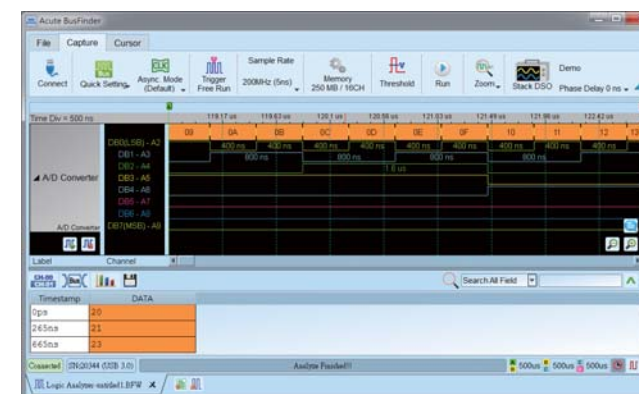
## Protocol Analyzer: eMMC 5.1, MIPI D-PHY 1.2, NAND Flash, SD 3.0 (SDIO 3.0), SD 4.1 (UHS-II), UFS2.1 (BF7264B+ Only)

- 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 bugs from voltage drop
- Use PC hard disk (SSD) to log long time data
- Protocol monitor like dash camera for long time surveillance (months)

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

- 2.4GHz timing analysis
- 8-state flow chart bus triggers
- Bus decodes with waveforms
- Stacks with a DSO to form as an MSO

### Software Window



### System Requirements

- USB 3.0 port
- Win 10 (64 bit)
- PC RAM 16GB (recommended) or 8GB at least



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## BusFinder

Device weight : 800g, Accessories weight : 1216g



Device \*1



BNC to MCX \*1



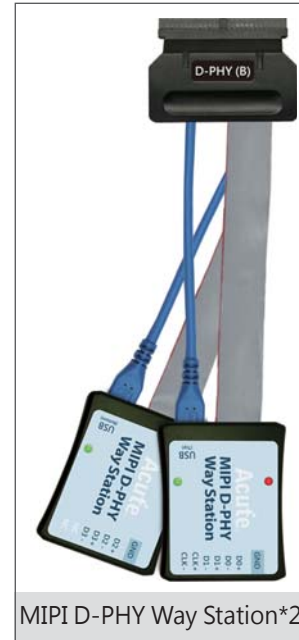
USB3.0 (1.8M) \*1



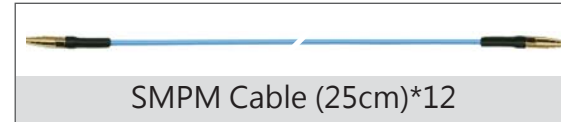
Adapter/Power cord \*1

## MIPI D-PHY Option

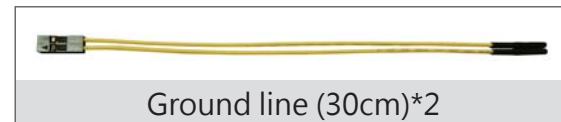
weight : 410g



MIPI D-PHY Way Station\*2



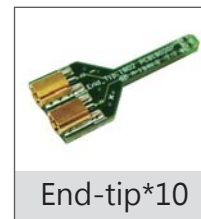
SMPM Cable (25cm)\*12



Ground line (30cm)\*2



SMPM Extraction Tool\*1



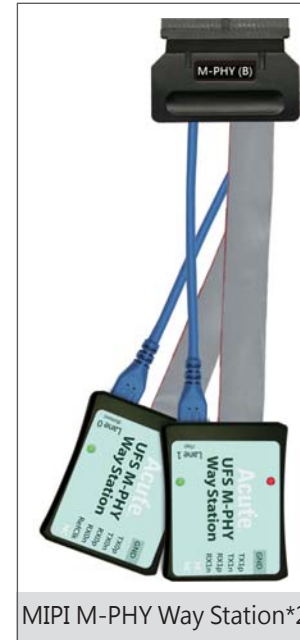
End-tip\*10



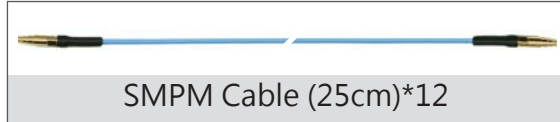
Micro USB 3.0 \*2

## UFS 2.1 Option (BF7264B+ Only)

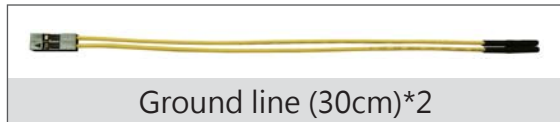
weight : 550g



MIPI M-PHY Way Station\*2



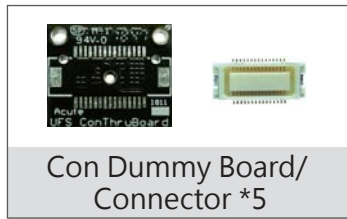
SMPM Cable (25cm)\*12



Ground line (30cm)\*2



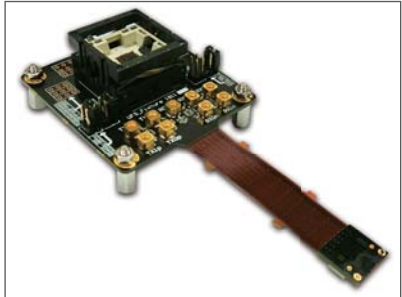
SMPM Extraction Tool\*1



Con Dummy Board/  
Connector \*5



UFS-BGA-tip \*2



Con Fixture\*1



FPC End-tip\*10/ Connector\*5



Micro USB 3.0 \*2

## LA Option

weight : 410g



LA08-tip\*2 / LA09-tip\*2



Flying lead cable (LA) \*4



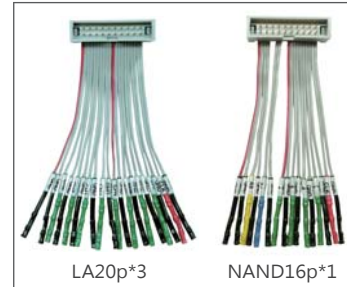
Gripper \*40

## NAND Flash Option

weight : 226g



LA08-tip\*1, LA09-tip\*2  
NAND-tip\*1



LA20p\*3 NAND16p\*1  
Flying lead cable (NF)\*4

LA08-tip\*1, LA09-tip\*2

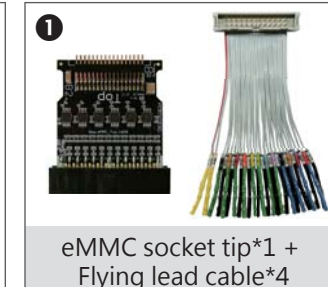
NAND-tip\*1

## eMMC 5.1 Option

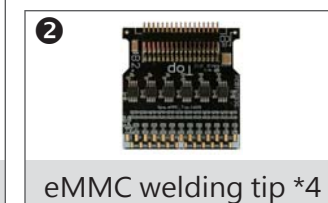
weight : 230g



LA04 (B)-tip\*1



eMMC socket tip\*1 +  
Flying lead cable\*4



eMMC welding tip \*4

## SD 3.0 / SDIO3.0 Option

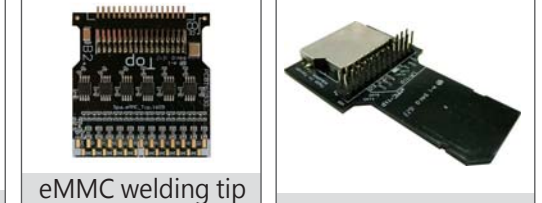
weight : 160g



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

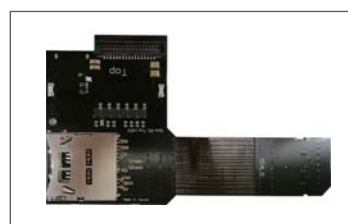
## SD 4.1 Option

weight : 420g

### SD 4.1 Probe



Micro USB 3.0 \*1



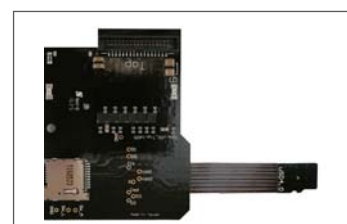
LA04 (B)-tip\*1

SD4.1-tip\*1

### uSD 4.1 Probe



Micro USB 3.0 \*1



LA04 (B)-tip\*1

uSD4.1-tip\*1

## Tip specification

\*SE: Single Ended, Diff.: Differential Pair

Model	LA08/09	LA04 (B)	NAND / UFS	eMMC, SD 3.0	SD 4.1, uSD 4.1	End tip
Number of Channels	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	-0.5V ~ +4.8V			0V ~ +3.3V	---
	Resolution	21mV				---
	Accuracy	±100mV + 5%*Vth				---
Input Voltage of Data	Maximum (Non-destructive)	±15V DC+AC peak			-0.5V ~ +5V DC+AC peak	±10V
	Operation	-1V ~ 8V			0V ~ 3.3V	0 ~ 5V
	Sensitivity	~300mV			~150mV	~200mVpp.
Impedance of Data	1MΩ    5pF			500kΩ    2pF		1kΩ
	Maximum (Non-destructive)	---				---
Input Voltage of Analog	Maximum (Non-destructive)	---				---
	Operation	---			0V ~ 4V	---
	Resolution	---			~1mV	---
Impedance of analog	Sampling Rate	---			1M	---
	Impedance of analog	---			1MΩ    100pF	---