

# BusFinder

Model	BF7264 Pro		
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	
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°C~45°C (41°F~113°F)/-10°C~65°C (14°F~149°F)	
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 BF7264 Pro, the maximum delivery Gripper number is 80 Grippers per mainframe unit.

\* Optional LA4G-POD needed.

# CALTRON PTE LTD

## 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

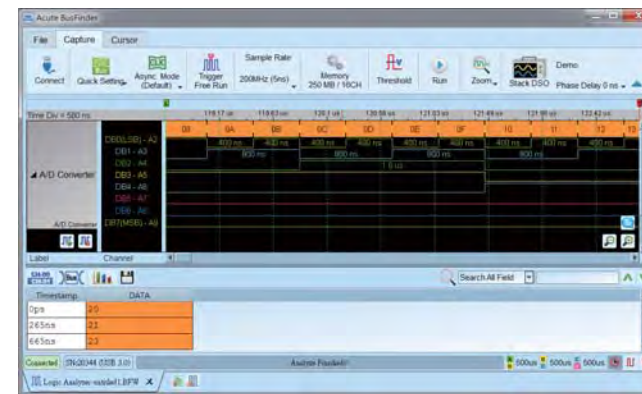
### Protocol Analyzer: eMMC 5.1, eDP1.4a, MIPI D-PHY 1.2, NAND Flash, SD 3.0 (SDIO 3.0), SD 4.1 (UHS-II), SGMII, UFS2.1

- 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-states flow chart parallel bus trigger
- 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

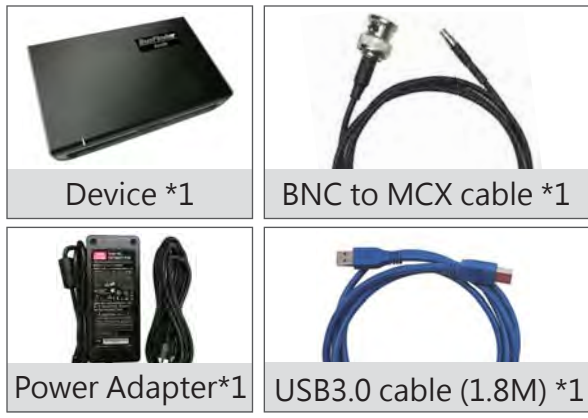


www.caltron.sg  
email: caltron@caltron.sg



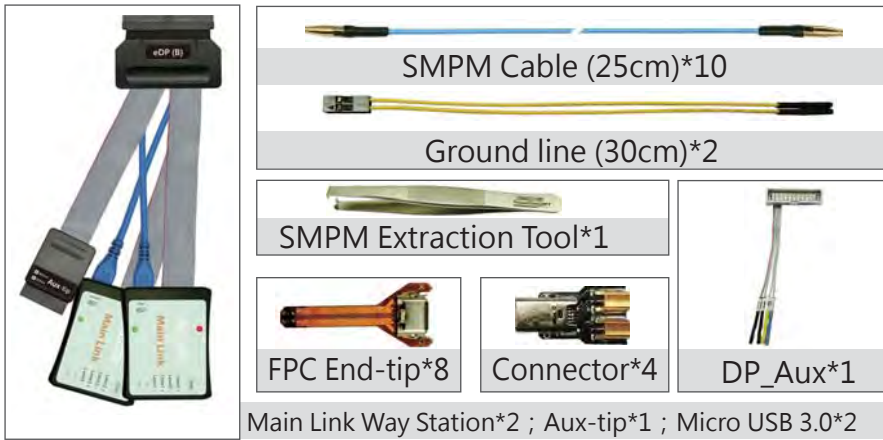
### BusFinder 7264 Pro

Device : 800g  
Accessories : 1216g



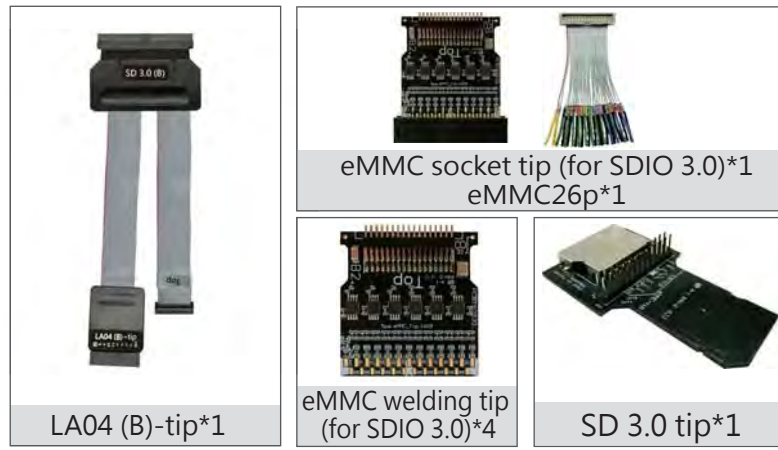
### eDP1.4a Option

weight : 520g



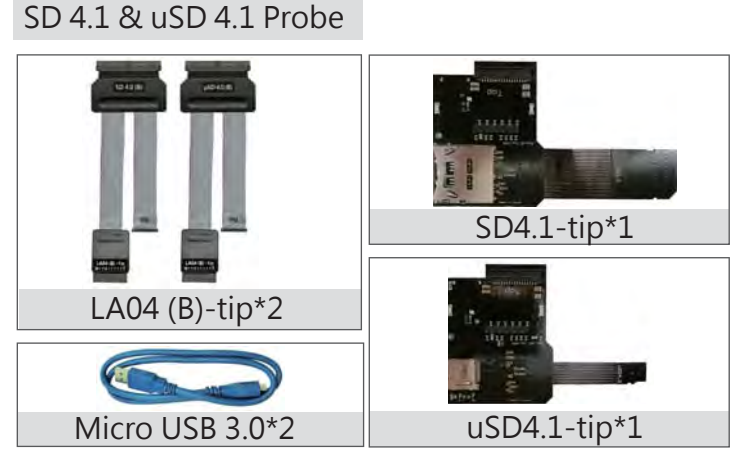
### SD 3.0 / SDIO3.0 Option

weight : 160g



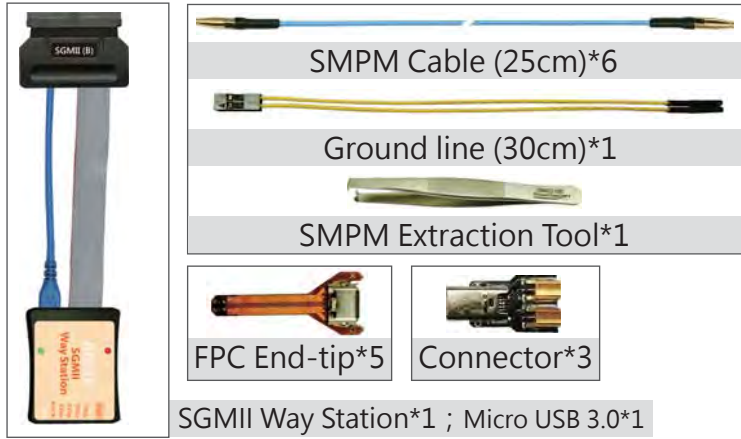
### SD 4.1 Option

weight : 420g



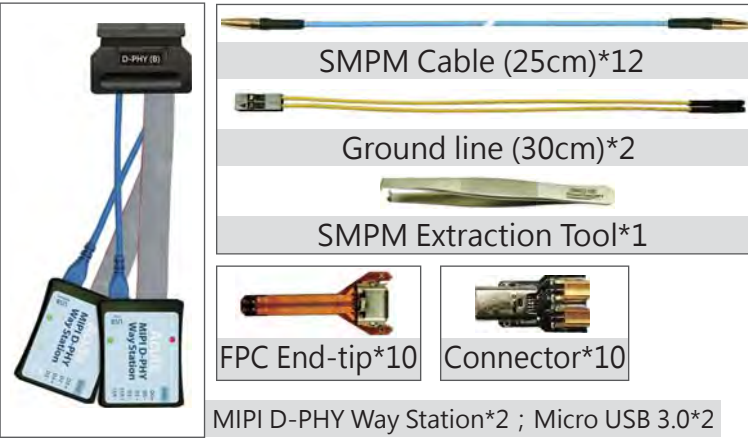
### SGMII Option

weight : 390g



### MIPI D-PHY Option

weight : 410g



### LA-POD 2 (32Ch) Option

weight : 430g



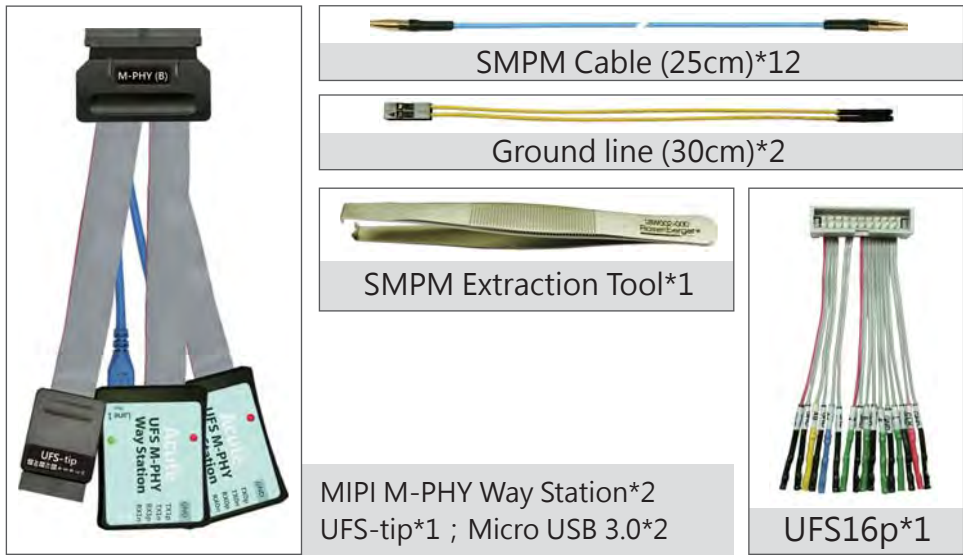
### LA4G-POD (16Ch) Option

weight : 330g



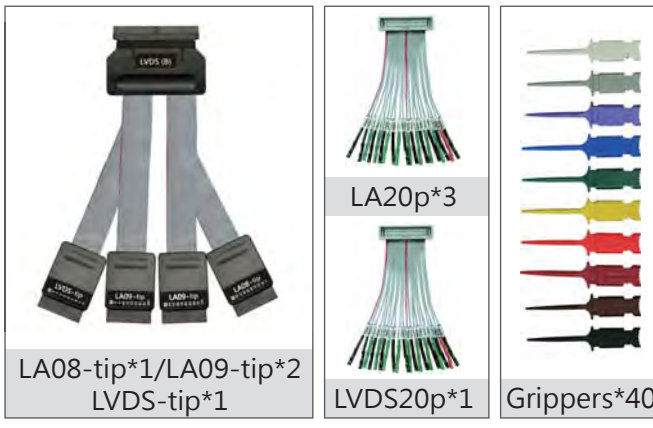
### UFS 2.1 Option

weight : 550g



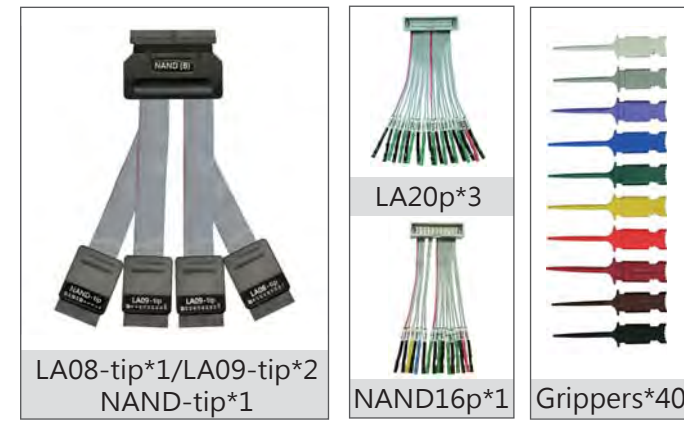
### LVDS Option

weight : 450g



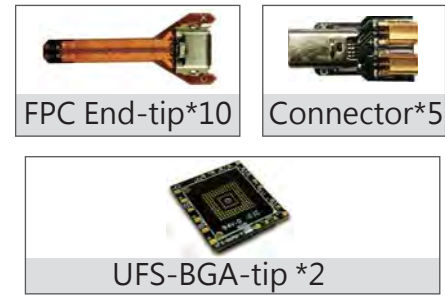
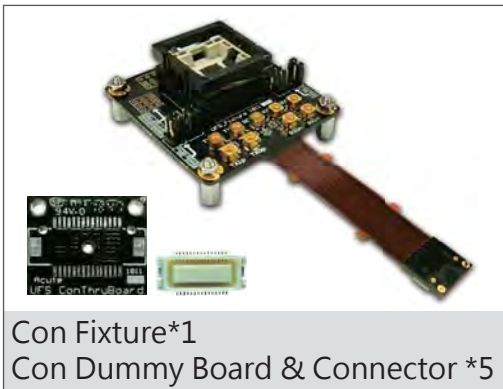
### NAND Flash Option

weight : 450g



### eMMC 5.1 Option

weight : 230g



### Tip specification

Model	LA4K/LA4G	LA08/09	LA04 (B)	NAND, UFS	eMMC, SD 3.0	SD 4.1, uSD 4.1	LVDS	End-tip
Number of Channels	8 / 8+1 (Data+CLK)	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)	8-Diff.	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)	±40V DC+ AC peak	±15V DC+AC peak		-0.5V ~ +5V DC+AC peak		-0.5V~+4.6V DC+AC peak	±10V
	Operation	±15V	-1V ~ 8V		0V ~ 3.3V		0V ~ 3.3V	0 ~ 5V
	Sensitivity	---	~300mV		~150mV		~100mV	~200mVpp.
Impedance of Data	~ 55KΩ    <2pF to 1Vdc	---	1MΩ    5pF		500kΩ    2pF		75K Ω    3pF	<sup>1</sup> 1kΩ    (500+1pF) <sup>2</sup> 250Ω <sup>3</sup> 250Ω    (250+1pF)
Input Voltage of Analog	Max. (Non-destructive)	---	---		-0.5V ~ +8V DC+AC peak		---	---
	Operation	---	---		0V ~ 4V		---	---
	Resolution	---	---		~1mV		---	---
Impedance of analog	Sampling Rate	---	---		1M		---	---
	---	---	---		1MΩ    100pF		---	---

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

<sup>1</sup> D-PHY <sup>2</sup> UFS2.1 / SGMII <sup>3</sup> eDP