

皇晶科技

BusFinder 协议分析仪 (BF7264B/B+)



270 x 175 x 55 (mm³)

- PC-based, 64 通道
- USB 3.0 接口, 12V 电源
- 32Gb 总内存

协议分析仪选配： eMMC 5.1, MIPI D-PHY 1.2, NAND Flash, SD 3.0 (SDIO 3.0), SD 4.1 (UHS-II), SGMII, UFS2.1 (BF7264B+ Only)

- 实时显示协议资料
- 命令 (或资料) 触发
- 不同协议专用主动探头，便于接线并优化阻抗匹配
- 过滤不需资料，储存更多命令或数据
- 隐藏特定资料，简化阅读内容
- 搜寻特定资料
- 两组电压侦测及触发，利于定位掉电位置
- 资料统计，提供精准分析
- 数据纪录仪储存长时间的协议资料
- 资料监控仪长时间 (数月以上) 监控协议资料

逻辑分析仪选配 / LVDS选配： eMMC 5.1, NAND Flash, SD 3.0 (SDIO 3.0), Serial Flash, SPI / LVDS

- 2.4GHz 时序分析
- 8 阶流程图式触发
- 提供波形显示
- 支援叠加他牌示波器 (以实际支援机型为主)，同时观察数字及模拟波形

软件画面

Timestamp	Source	Mode	VC	Dev Type	DCB	VC	Dev B1	Timestamp	Source	Mode	VC	Dev B1
10.437049.04	LP	LPDT	0	Generic Long Wri...	2	B0 03	Host process...	10.437050.04	LP	LPDT	0	Host process...
10.437060.04	LP	LPDT	0	DCS Short Write...	3	B0 04	Host process...	10.437061.04	LP	LPDT	0	Host process...
10.437069.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437070.04	LP	LPDT	0	Host process...
10.437070.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437071.04	LP	LPDT	0	Host process...
10.437071.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437072.04	LP	LPDT	0	Host process...
10.437072.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437073.04	LP	LPDT	0	Host process...
10.437073.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437074.04	LP	LPDT	0	Host process...
10.437074.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437075.04	LP	LPDT	0	Host process...
10.437075.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437076.04	LP	LPDT	0	Host process...
10.437076.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437077.04	LP	LPDT	0	Host process...
10.437077.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437078.04	LP	LPDT	0	Host process...
10.437078.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437079.04	LP	LPDT	0	Host process...
10.437079.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437080.04	LP	LPDT	0	Host process...
10.437080.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437081.04	LP	LPDT	0	Host process...
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10.437082.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437083.04	LP	LPDT	0	Host process...
10.437083.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437084.04	LP	LPDT	0	Host process...
10.437084.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437085.04	LP	LPDT	0	Host process...
10.437085.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437086.04	LP	LPDT	0	Host process...
10.437086.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437087.04	LP	LPDT	0	Host process...
10.437087.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437088.04	LP	LPDT	0	Host process...
10.437088.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437089.04	LP	LPDT	0	Host process...
10.437089.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437090.04	LP	LPDT	0	Host process...
10.437090.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437091.04	LP	LPDT	0	Host process...
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10.437093.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437094.04	LP	LPDT	0	Host process...
10.437094.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437095.04	LP	LPDT	0	Host process...
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10.437100.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437101.04	LP	LPDT	0	Host process...
10.437101.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437102.04	LP	LPDT	0	Host process...
10.437102.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437103.04	LP	LPDT	0	Host process...
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10.437104.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437105.04	LP	LPDT	0	Host process...
10.437105.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437106.04	LP	LPDT	0	Host process...
10.437106.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437107.04	LP	LPDT	0	Host process...
10.437107.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437108.04	LP	LPDT	0	Host process...
10.437108.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437109.04	LP	LPDT	0	Host process...
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10.437110.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437111.04	LP	LPDT	0	Host process...
10.437111.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437112.04	LP	LPDT	0	Host process...
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10.437114.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437115.04	LP	LPDT	0	Host process...
10.437115.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437116.04	LP	LPDT	0	Host process...
10.437116.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437117.04	LP	LPDT	0	Host process...
10.437117.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437118.04	LP	LPDT	0	Host process...
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10.437122.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437123.04	LP	LPDT	0	Host process...
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10.437151.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437152.04	LP	LPDT	0	Host process...
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10.437153.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437154.04	LP	LPDT	0	Host process...
10.437154.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437155.04	LP	LPDT	0	Host process...
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10.437171.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437172.04	LP	LPDT	0	Host process...
10.437172.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437173.04	LP	LPDT	0	Host process...
10.437173.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437174.04	LP	LPDT	0	Host process...
10.437174.04	LP	LPDT	0	Generic Long Wri...	2	B0 04	Host process...	10.437175.04	LP	LPDT		

系统需求

- USB 3.0 port
- Win 7, Win 8, Win 10, Win 11 (64 位)
- PC RAM 16GB (推荐) 或者 8GB (至少)



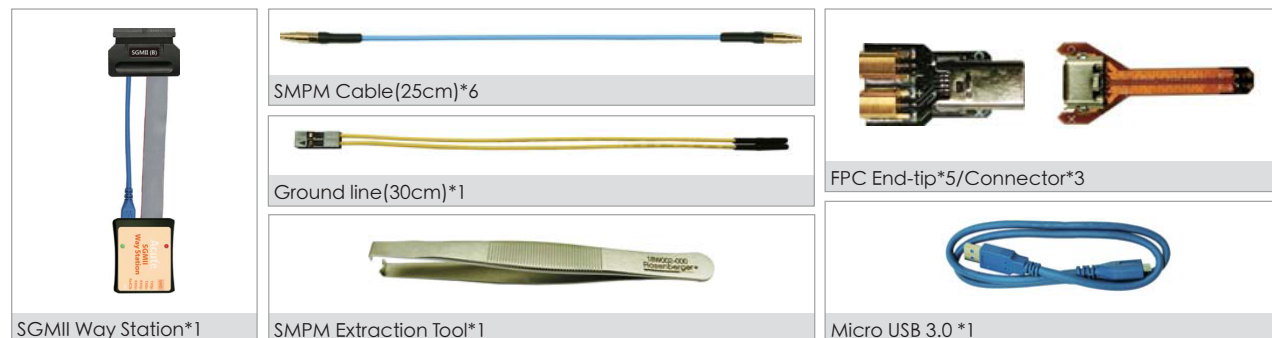
BusFinder 7264B/B+

主机重量: 800g, 配件重量: 1216g



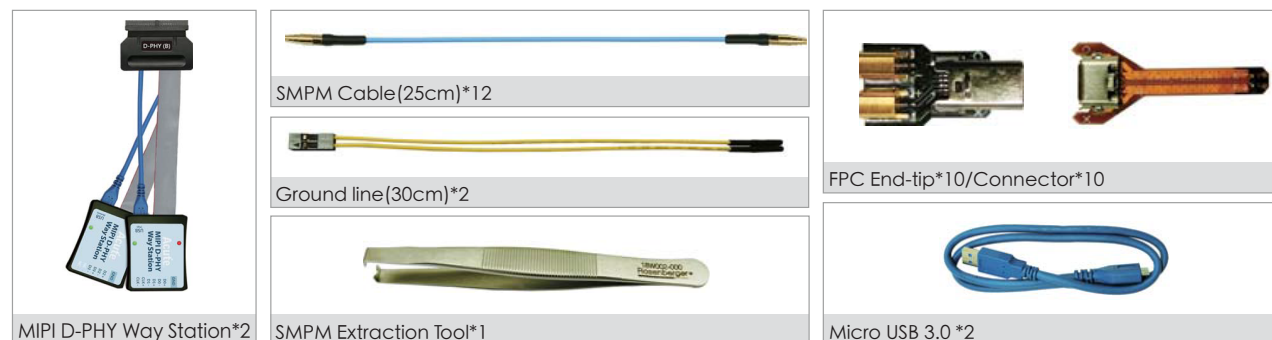
SGMII 方案

重量: 410g



MIPI D-PHY 方案

重量: 410g



UFS 2.1 方案 (BF7264B+ Only)

重量: 550g



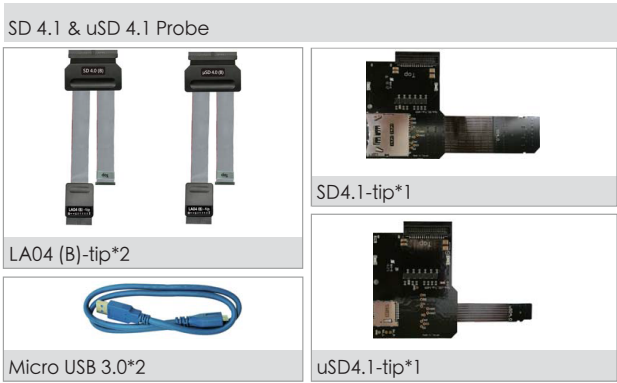
SD 3.0/SDIO3.0 方案

重量: 160g



SD 4.1 (UHS-II/含 SD 3.0/SD 6.1 Legacy mode) 方案

重量: 420g



NAND Flash 方案

重量: 226g



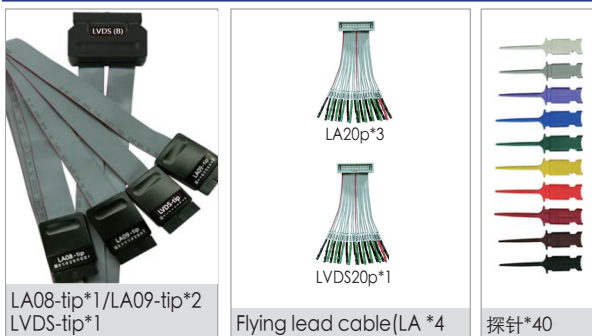
eMMC 5.1 方案

重量: 230g



LVDS 方案

重量: 450g



LA 方案

重量: 410g



Tip 技术指标

*SE: 单端; Diff.: 差分信号

项目	LVDS	LA08/09	LA04(B)	NAND, UFS	eMMC, SD3.0	SD4.1, uSD4.1	End-tip
通道组合	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.
触发电平 (Data)	范围	---	-0.5V ~ +4.8V			0V ~ +3.3V	
	分辨率	---	21mV			---	
	精度	---	±100mV + 5% *Vth			---	
输入电平 (Data)	最大 (非破坏性输入)	-0.5V ~ +4.6V DC+AC peak	±15V DC+AC peak			-0.5V ~ +5V DC+AC peak	
	工作范围	0V ~ 3.3V	-1V ~ 8V			0V ~ 3.3V	
	灵敏度	~100mV	~300mV			~150mV	
输入阻抗 (Data)		75KΩ 3pF	1MΩ 5pF			500Ω 2pF	
						¹ 1kΩ (500+1pF)	
						² 250Ω	
输入电平 (Analog)	最大 (非破坏性输入)	---	-0.5V ~ +8V DC+AC peak				---
	工作范围	---	0V ~ 4V				---
	分辨率	---	~1mV				---
	采样率	---	1M				---
输入阻抗 (Analog)		---	1MΩ 100pF				---

¹ D-PHY ² UFS2.1/SGMII



BusFinder 系列		
技术指标		BF7264B
电源	电源	12V Power adapter
	待机功耗	18W
	最大瞬时功耗	45W
传输界面		USB 3.0
时序分析 (异步,采样频率)		2.4GHz
状态分析 (同步,外部时钟)		300MHz
资料存储方式		普通存储, 跳变存储
通道 (Data / Clock)		64/4
总内存		32 Gb
时序 vs. 通道数 vs. 内存	时序分析	普通存储 / 跳变存储可用通道数 - 每通道内存
	2.4 / 2GHz	32/18 - 1Gb
	1GHz	64/56 - 500Mb
	500 / 250 / 200MHz	64/64 - 500Mb
触发	分辨率	416 ps
	通道数	64
	状态	8
	事件	8
	前置 / 后置 / 延迟	Yes
	忽略次数	Yes (1 ~ 1000000 times)
	种类	字节, 通道, 宽度, 超时, 单一 / 多条件, 外触发
	协议 (根据方案)	eMMC 5.1, NAND Flash, SD 3.0 (SDIO 3.0), Serial Flash (SPI NAND), SPI
输入电平	最大	请参阅 Tip 技术指标
	灵敏度	请参阅 Tip 技术指标
输入阻抗		请参阅 Tip 技术指标
温度		工作温度 / 存放温度
相位误差		5°C~45°C (41°F~113°F)/-10°C~65°C (14°F~149°F)
输入 / 输出	触发输入 (叠加用)	< 500 ps
	触发脉冲	TTL 3.3V (上升沿 / 下降沿)
	触发输出 (叠加用)	> 8ns
	参考时钟输入	TTL 3.3V
	参考时钟输出	10MHz, Vpp=3.3 to 5V
	接口种类	10MHz, TTL3.3V
	eMMC 5.1	MCX jack/female
	MIPI D-PHY 1.2	排线 / 探针
选购方案	NAND Flash	线材 / End-tip
	SD 3.0 / SDIO 3.0	排线 / 探针
	SD 4.1	SD 3.0 转板 / SDIO 3.0 转板 & 排线
	SGMII	SD 4.0 转板 (相容 SD 3.0)
	UFS 2.1	线材 / End-tip
	Logic Analyzer	连接器主板 / 线材 / End-tip
	LVDS	排线 / 探针
		排线 / 探针
软件功能	波形放大缩小	有 (可使用鼠标滚轮)
	使用语系	English / 繁体中文 / 简体中文
	波形高度	可改变
	全域窗口/报告窗口	有
	快速鼠标定位	有
	导入通道名称	有
	快速新增总线分析	有
	触发光标/辅助光标	1/25
总线分析		eMMC 5.1, NAND Flash, SD 3.0, Serial Flash (SPI NAND), SPI
主机尺寸		长 x 宽 x 高 (mm³)
重量		270 x 175 x 55 (mm³)
		请参阅内页

※ BF7264B / B+ 主机, 每台出货之探针上限为 80 支。

