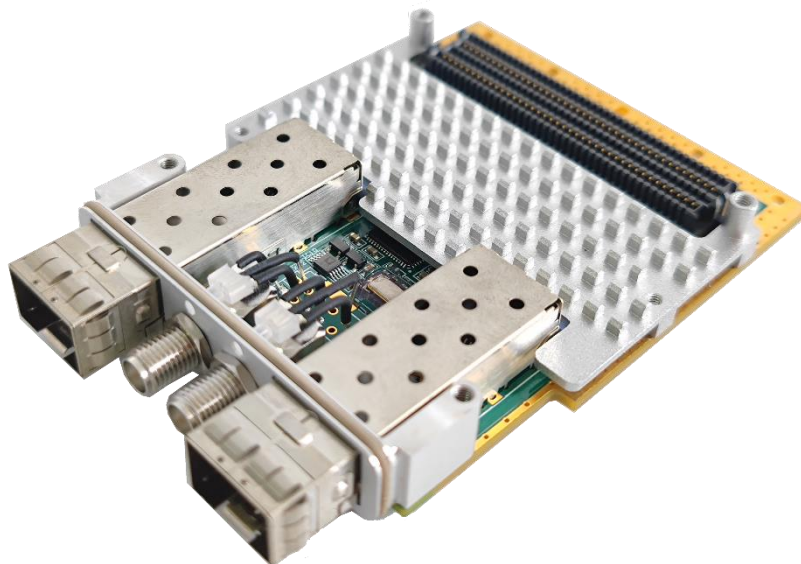


CUTE-WR-A7 双端口 WR 节点/FMC 子卡



WR (White Rabbit) 是基于同步以太网和 PTP 协议的时钟同步技术, 可实现长距离、多节点、亚纳秒级同步。

CUTE-WR-A7 是紧凑型双端口 WR 节点, 可为用户提供高性能同步时钟和千兆数据传输通道, 遵循 FMC 子卡标准(标准 VITA57, LPC FMC 连接器)设计, 提供两个 SFP 端口, 支持串行级联连接。

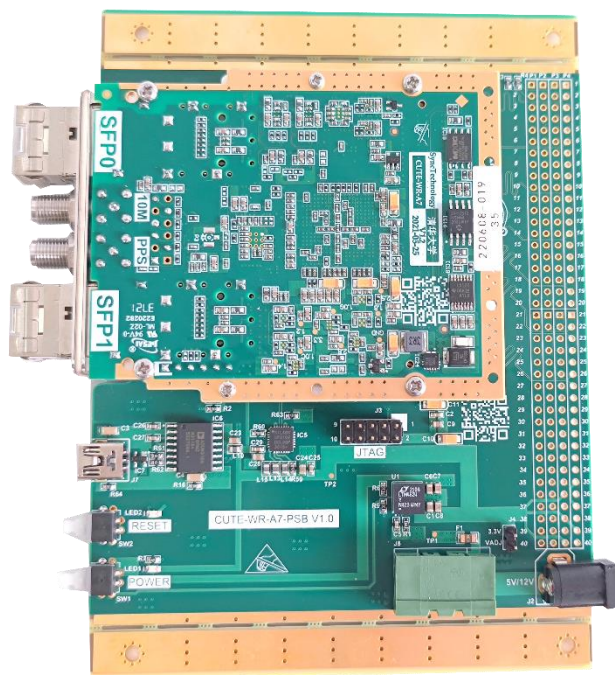
产品特点

- 亚纳秒时间同步准确度, <30 皮秒同步精度
- 同步距离 20km (最高可支持 160km)
- 2 个同步端口, 支持级联连接
- 10MHz/125MHz+PPS+UTC/TAI 输出
- 支持 SNMP 网络管理协议、远程更新
- 提供类 GMII 数据传输端口
- 支持以太网协议处理引擎 (选项)
- UDP>900Mbps、TCP>255Mbps

接口信息

- LPC FMC 连接, 3.3V 供电, 最大电流 2A
- 两路 SFP, 支持 WR/PTP, 千兆以太网
- 2 个 LEMO 接口, LVCMOS 电平
- 默认输出 PPS/10MHz
- 前面板双色指示灯

CUTE-WR-A7 PSB 供电底板



CUTE-WR-A7 PSB 为 CUTE-WR-A7 子卡提供电源，同时将其所有 FMC 信号引出，方便测试评估。

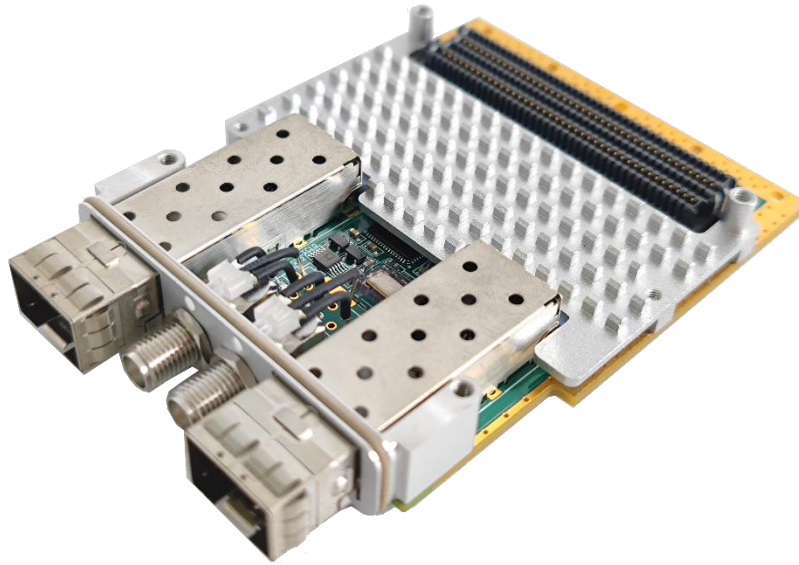
产品特点

- FMC 子卡提供电源及信号引出，便于调试
- 电源端子 (2.54mm JACK 或 2pin 5.08mm 凤凰端子) 供电，12V-5V，最大电流 2A
- 10pin JTAG 调试接口，用于引出 CUTE-WR-DP 调试信号。
- 复位按钮
- 电源通断按钮
- 调试用 USB 串口



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CUTE-WR-A7 (Dual-port FMC WR node)



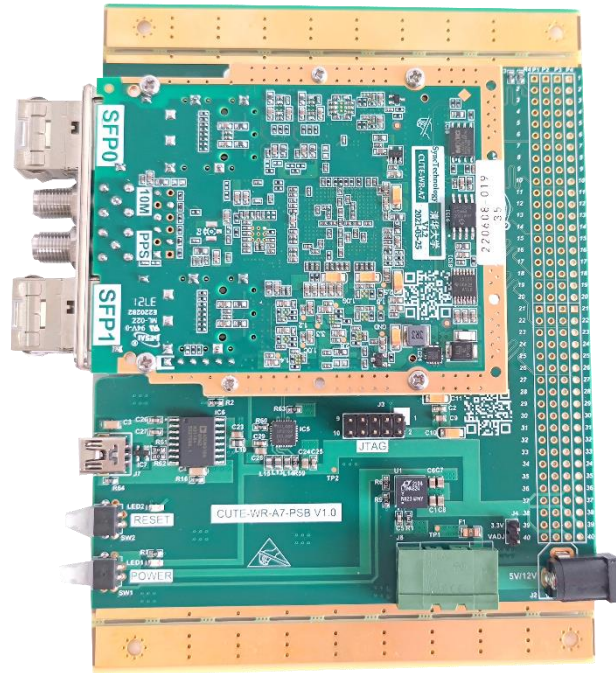
WR (White Rabbit) is the enhancement of the Ethernet based on Sync-E and PTP technology that can achieve synchronization up to sub-ns accuracy, pico-second accuracy among multiple nodes over tens of kilometers distance.

CUTE-WR-A7 (Compact Universal Time Endpoint for WR with Dual Port) is the endpoint of WR network, following the FMC VITA57 interface standard and providing synchronized clock and gigabit data transmission interface for user logic. The dual SFP port can support cascade daisy chain connection.

Product Highlight	✓ Sub-ns Accuracy and pico-second precision
	✓ 20Km distance (up to 160Km by special SFP module)
	✓ Dual WR port, supporting Cascade topology
	✓ 10/125 MHz, PPS, UTC/TAI output
	✓ SNMP, Remote update via UDP
	✓ GMII like interface for data transmission
	✓ Embedded ethernet protocol process engine* written in HDL, 900Mbps for UDP, 255Mbps for TCP

Interface	✓ LPC FMC connector, 3.3V(max 2A)
	✓ Dual SFP port for 1000Base-Lx, PTP and WR
	✓ 2 LEMO connector (LVCMOS33)
	✓ Bi-color status LEDs on front panel

CUTE-WR-A7-PSB Power Supply Board



Since the FMC connector is not convenient for testing, the CUTE-WR-A7-PSB provides the matching FMC connector and expands the signals to standard header connector, correspond power jack and JTAG socket.

Product Highlight

- ✓ Expand power and signals from FMC for testing
- ✓ DC Jack(2.54mm) or 2 pin PHOENIX Contact (5.08mm), 12V-5V input, max current is 2A
- ✓ JTAG interface
- ✓ Reset button
- ✓ Power On/Off button
- ✓ USB serial port



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