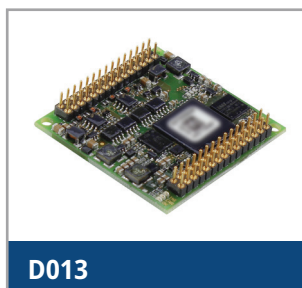
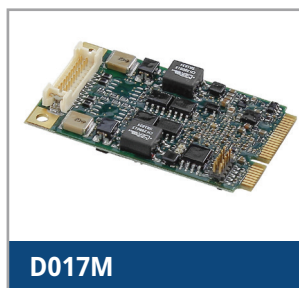


MVB Interfaces



D013



D017M



D113



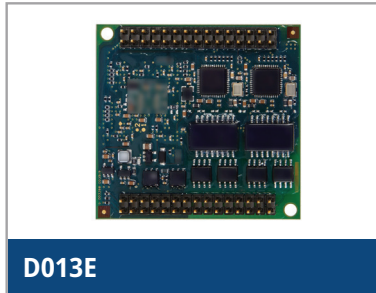
D114L



D215

Type	Small Multipurpose MVB Communication Module for Railway Systems	PCI Express Mini Card MVB Interface with Bus Administrator Functionality	PC/104 MVB Platform with Bus Administrator Functionality	PC/104 MVB Interface	CompactPCI MVB Interface Card
Host Interface	Parallel, Serial, SPI	PCI Express	PC/104 bus, UART emulation for easy integration	PC/104 bus, UART emulation for easy integration	CompactPCI Slot, universally keyed (+3.3 V and +5 V)
Size	(W) 50 mm, (D) 48 mm, (H) 13 mm	(W) 30 mm, (D) 50.95 mm, (H) 7.4 mm	(W) 95.89 mm, (D) 90.17 mm, (H) 1.6 mm	(W) 95.89 mm, (D) 90.17 mm, (H) 14 mm	(W) 160 mm, (D) 100 mm, (H) 20.32 mm
MVB Features & Configuration	▶ Process Data ▶ Message Data (optional) ▶ Bus Administrator (optional)	▶ Process Data ▶ Message Data (optional) ▶ Bus Administrator (optional) ▶ Read-only (optional)	▶ Process Data ▶ Message Data (optional) ▶ Bus Administrator (optional)	▶ Process Data only	▶ Process Data ▶ Message Data (optional) ▶ Bus Administrator (optional)
Physical Layer Support	EMD, ESD+	EMD, ESD+	EMD, ESD+, ESD	EMD, ESD+, ESD or OGF	EMD, ESD+
Special Features	▶ Smallest footprint ▶ flexible mounting	▶ Multiple hardware variants	▶ Up to Class 4 MVB ▶ multiple connector options	▶ Cost-optimized for ≤16 PD ports ▶ Supports all physical layers ▶ UART emulation	▶ up to Class 4 MVB ▶ diagnostic LEDs

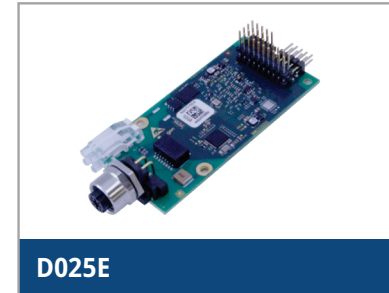
Ethernet Interfaces



D013E



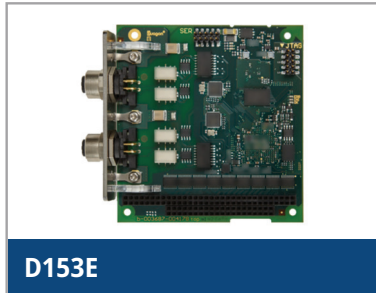
D023E



D025E

Type	Dual Ethernet Interface	Compact Dual Real-Time Ethernet Interface	PC/30 Ethernet Interface
Host Interface	Parallel/Serial, Parallel/SPI, 3.3V logic	Parallel/SPI, 3.3V logic	Parallel/Serial, Parallel/SPI
Size	Chip-sized, (W) 50 mm, (D) 48 mm, (H) 10 mm	Compact, (W) 50 mm, (D) 48 mm, (H) 27 mm (height incl. heat sink)	PC/30, 40 mm, 85 mm, 20 mm
Ethernet Ports	2 x 10/100BASE-T, board-to-board	2 x 10/100BASE-T, board-to-board	1 x 10/100BASE-T, M12
Supported Protocols	TCP/IP with UDP Sockets, IPTCom, EtherNet/IP - CIP, CIP Scanner Light, PROFINET, TRDP, TRDP with Safe Data Transmission (SDTv2)	TCP/IP with UDP Sockets, IPTCom, EtherNet/IP - CIP, CIP Scanner Light, PROFINET, TRDP, TRDP with Safe Data Transmission (SDTv2)	TCP/IP with UDP Sockets, IPTCom, EtherNet/IP - CIP, CIP Scanner Light, PROFINET, TRDP
Topology & Architecture	RSTP, MRP, Dual Homing, Daisy Chain, Ring, bypass relays	RSTP, MRP, Dual Homing, Daisy Chain, Ring, bypass relays	RSTP, MRP, Dual Homing, Daisy Chain, Ring, bypass relays
Processing & Integration	FPGA-based soft CPU, 32-bit, 75 MHz, hardware prioritization, host driver kit	Dual-core ARM Cortex-A53, FPGA for host interface, offloads protocol stacks, host driver kit	FPGA-based soft CPU, 32-bit
Special Features	Space-saving, easy host integration, hardware prioritization, web maintenance, cybersecurity packages	TSN support (TRDP), advanced cybersecurity packages, web/CLI configuration, pin-compatible to D013E	Advanced cybersecurity packages, proprietary Ethernet stack for process data prioritization with decreased data latency

Ethernet Interfaces



D153E



D215E



D134C

Type	PC/104 Ethernet Interface	Dual CompactPCI to Ethernet Interface	PC/104 CAN Interface
Host Interface	PC/104 bus, UART emulation, easy integration	CompactPCI bus	PC/104 bus, UART emulation
Size	(W) 95.89 mm, (D) 90.17 mm, (H) 18.5 mm	3U, 4HP	(W) 90.2 mm, (D) 95.9 mm, (H) 2.5 mm
Ethernet Ports	2 x 10/100BASE-T, M12 or board-to-wire	2 x 10/100BASE-T, M12	CAN ports
Supported Protocols	TCP/IP with UDP Sockets, IPTCom, EtherNet/IP - CIP, CIP Scanner Light, PROFINET, TRDP, TRDP with Safe Data Transmission (SDTv2)	TCP/IP with UDP Sockets, IPTCom, EtherNet/IP - CIP, CIP Scanner Light, PROFINET, TRDP, TRDP with Safe Data Transmission (SDTv2)	CANopen, J1939
Topology & Architecture	RSTP,MRP, Ring, Daisy Chain, Dual Homing, optional 3-port switch, bypass relays	Ring/Line, LAN bypass, 3-port switch	Not applicable (CAN only)
Processing & Integration	FPGA-based soft CPU, 32-bit, 75 MHz, hardware prioritization, UART emulation	FPGA-based soft CPU, 32-bit, 75 MHz	FPGA-based soft CPU, 32-bit, 75 MHz (CAN)
Special Features	Optional 3-port switch, VLAN, cybersecurity, web/CLI configuration, UART emulation	cPCI form factor, 3-port switch, LAN bypass, webserver	CANopen/J1939, UART emulation