

914-X SERIES EXPANSION CARDS

Model 914-EX
Model 914-VDX
Model 914-DX
Model 914-AX



Moog Focal has been the leading manufacturer of reliable, high-performance, and high-quality multiplexers and media converters since 1983, specializing in standard and custom products for harsh environment applications. Our experience positions us perfectly to help you choose the best solution for your application.

The Moog Focal 914-X Series multiplexer system provides optical data rates up to 6 Gbaud. Taking advantage of this abundant bandwidth, a series of expansion cards is available to complement the 914-HDE motherboard. These expansion options are packaged into the same credit card size form factor and stack neatly on top of the 914-HDE. Up to 8 expansion cards with various options may be stacked onto a single 914-HDE motherboard to create a feature-rich yet compact modular multiplexing solution.

Features:

- 914-HDE motherboards have:
 - 4 low speed expansion channels
 - 4 medium speed expansion channels
- Expansion cards feature:
 - Multiple Gigabit Ethernet
 - Multiple NTSC / PAL video
 - Multiple isolated serial channels (RS-232 / RS-485 / RS-422 / TTL)
 - CAN bus, hydrophone, TTL, sonar
- Sub millisecond latency (no buffer delays)
- Rugged design for harsh environment, including 6000 psi pressure tolerant version
- Full system diagnostics via 914-HDE and provided software GUI
- Full user software control of serial data protocol settings
- Diagnostic LEDs on all cards
- Diagnostic LED header for enclosure integration

ADVANTAGES

- Fast response for time-critical links
- Upgrade to 914-X Series multiplexer systems
- No additional optical components or wavelengths
- Transparent links with no buffering
- Ultra compact size for tight spaces and small enclosures

APPLICATIONS

- Remotely Operated Vehicles (ROVs) and Tether Management Systems (TMS)
- Pipe inspection robots
- Bomb disposal robots
- Video security systems
- Tactical networks and defense systems
- Industrial process control



SPECIFICATIONS

TECHNICAL DATA



	914-EX Switchless Ethernet multiplexer, low latency, high bandwidth	914-VDX Video and serial data multiplexer, low latency	914-DX Serial data multiplexer	914-AX Moog Focal AIB plug-in module adaptor
Supported Data Formats	2 x 10/100/1000BASE-T(X) Ethernet	2 x NTSC / PAL video	6 x isolated (in pairs) serial data (RS-232 / RS-485 / RS-422 / TTL)	CAN Bus, hydrophone, analog sonar, Tritech® ARCNET, TTL, RS-232, RS-485, RS-422
		4x isolated (in pairs) serial data (RS-232 / RS-485 / RS-422 / TTL)		1 x channel/signal per module
Expansion Channels Required	1 x medium speed expansion channel	1 x medium speed expansion channel	1 x low speed expansion channel	1 x low speed expansion channel
	2 x medium speed expansion channels (optional)			
Features	LED diagnostics, LED header	LED diagnostics, LED header	LED diagnostics, LED header	LED diagnostics, LED header
	Full software diagnostics and configuration via 914-HDE	Full software diagnostics and configuration via 914-HDE	Full software diagnostics and configuration via 914-HDE	Hosts a single AIB plug-in module, single signal per module
	Automatic Ethernet Link Speed Synchronization	Serial channels are isolated in pairs (2 isolation circuits)	Serial channels are isolated in pairs (3 isolation circuits)	
		Each serial channel has individual protocol, termination and timeout configurations	Each serial channel has individual protocol, termination and timeout configurations	

For product information, visit www.moog.com
For more information or the office nearest you, contact us online, focal@moog.com

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