VTI Instruments

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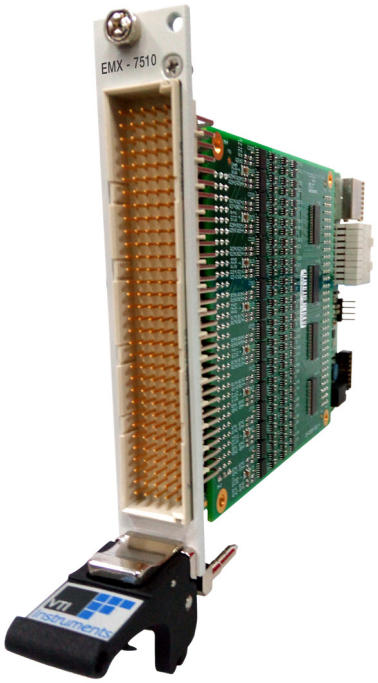
EMX-7500 SERIES

PXIe DIGITAL INPUT/OUTPUT



FEATURES

- High Current
  - 300 mA Sink
- High Density
  - 64 Channels / Card
- Isolation
  - 1000 V
- Multiple Digital Logic Levels
  - LV TTL
  - TTL
  - 60 V Max, User Defined
- Flexible Configurations
  - Dedicated Input
  - Dedicated Output
  - Eight, 8-Bit Ports
- Flexible Software
  - Embedded Soft Front Panel
  - Common IVI Software Drivers

AMETEK®

RELIABLE DATA FIRST TIME EVERY TIME

EMX-7500 SERIES PXIe Digital Input/Output

The AMETEK VTI Instruments EMX-7500 Series is a family of high-performance PXIe modules consisting of multiple I/O configurations and logic levels. Dedicated input or output cards are available for high channel count applications while other cards provide ultimate flexibility with eight, 8-bit ports (64 channels) that can be configured as an input or output under programmatic control.

Models capable of sinking 300 mA include built-in clamping diodes, making these modules ideal for driving and sensing external devices such as relays, while all clamping diodes and open collector channels can be pulled up internally, rather than on a per channel basis, simplifying overall system cabling. Isolated models are also available for more demanding applications.

Specifications

EMX-7510	Digital Input		Channels	64 (Eight 8-Bit Ports)
			V_{IN} (high)	> 40% of V_{clamp}
			V_{IN} (low)	< 16% of V_{clamp}
			V_{IN} (max)	60 V
	Data Output Characteristics		V_{OUT} (high)	> 2 V to 60 V
			V_{OUT} (low)	< 1.5 V @ 300 mA
	Voltage Range	V_{clamp}	Internal Voltage Source	3.3 V, 5.0 V, 12.0 V, and 24.0 V
			User Voltage[1]	> 2 V up to 60 V
		Connector Type		ERNI 160-Pin
	Modes	Immediate		Inputs and outputs read and written via software control
EMX-7511	Digital Input/ Output		Channels	64 (Eight 8-Bit Ports)
			Logical Level	Standard TTL @ 24 mA sink/source
EMX-7512	Digital Input/ Output		Channels	64 (Eight 8-Bit Ports)
			Logical Level	Standard LVTTL @ 24 mA sink/source
EMX-7513	Digital Input		Channels	32
			Logical High	2.8 V to 60 V
			Logical Low	< 2 V
			Isolation	1000 V
	Digital Output		Channels	32
			Sink/Source	100 mA to 60 V (AC/DC)
			Potential Free	Yes
			Isolation	1000 V
			Connector Type	ERNI 160-Pin
EMX-7514	Digital Output		Channels	64
			Sink/Source	100 mA to 60 V (AC/DC)
			Potential Free	Yes
			Isolation	1000 V
			Connector Type	ERNI 160-Pin
EMX-7515	Digital Input		Channels	64
			Logical High	2.8 V to 60 V
			Logical Low	< 2 V
			Isolation	1000 V
			Connector Type	ERNI 160-Pin

[1] User voltage can be applied through the DIO Connection.

Ordering Information

Model	Configuration
EMX-7510	64-CH DIO, Source/Sink, 60 V max Static I/O
EMX-7511	64-CH, DIO TTL, Static I/O
EMX-7512	64-CH, DIO LV TTL, Static I/O
EMX-7513	32DI/32DO, Source/Sink, 60 V max, Isolated Static I/O
EMX-7514	64 DO, Source/Sink, 60 V max, Isolated Static I/O
EMX-7515	64 DI, 60 V max, Isolated Static I/O
70-0409-160	Strain relief bracket kit (without connector)
52-0109-000	Crimp Pin (includes 100 crimp pins)
27-0088-160	Mating connector (one per board)
46-0010-000	Crimp tool (DIN)
46-0011-000	Extraction tool (DIN)
70-0363-505	160-Pin, unterminated cable assembly, 3ft
70-0367-005	EMX-TB160SE terminal block, single-ended module

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