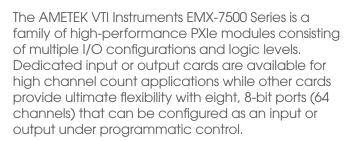


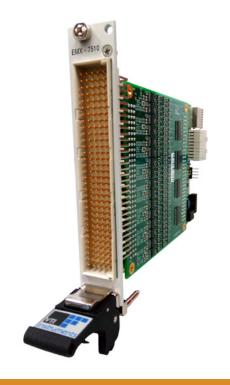
www.VTlinstruments.com

EMX-7500 SERIES

PXIe DIGITAL INPUT/OUTPUT



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.



FEATURES

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



EMX-7500 SERIES PXIe Digital Input/Output

| | ations | | |
|----------------------|-------------------------------|--|--|
| EMX-7510 | | Channels | 64 (Eight 8-Bit Ports) |
| | Digital Input/Output | V IN (high) | > 40% of Volamp |
| | | V IN (low) | < 14% of Volamp |
| | | V IN (max) | 60 V |
| | | V OUT (high) | > 2 V to 60 V |
| | | V OUT (low) | < 1.5 V @ 300 mA max. (sink) |
| | | Connector Type | ERNI 160-Pin |
| | Voltage Range | Internal Voltage | 3.3 V, 5.0 V, 12.0 V and 24.0 V |
| | | Source (Vclamp) | |
| | | User Voltage¹ (Vclamp) | > 2 V up to 60 V |
| EMX-7511 | Digital Input/ Output | Channels | 64 (Eight 8-Bit Ports) |
| | | Logical Level | Standard TTL @ 24 mA sink/source |
| | | Connector Type | ERNI 160-Pin |
| EMX-7512 | Digital Input/ Output | Channels | 64 (Eight 8-Bit Ports) |
| | | Logical Level | Standard LVTTL @ 24 mA sink/source |
| | | Connector Type | ERNI 160-Pin |
| EMX-7513 | Digital Input | Channels | 32 |
| | | Logical High | 2.8 V to 60 V |
| | | Logical Low | < 2 V |
| | | Isolation to Computer GND | 1000 V |
| | Digital Output | Channels | 32 |
| | | Maximum Switching Voltage | 60 V (AC/DC) |
| | | Maximum Switching Current | 100 mA |
| | | Potential Free | Yes |
| | | Isolation to Computer GND | 1000 V |
| | | Connector Type | ERNI 160-Pin |
| | | Channels | 64 |
| | | | |
| | | Maximum Switching Voltage | 60 V (AC/DC) |
| EMY-7514 | Digital Output | Maximum Switching Voltage Maximum Switching Current | 60 V (AC/DC) 100 mA |
| EMX-7514 | Digital Output | Voltage Maximum Switching | |
| EMX-7514 | Digital Output | Voltage Maximum Switching Current | 100 mA |
| EMX-7514 | Digital Output | Voltage Maximum Switching Current Potential Free Isolation to | 100 mA Yes |
| EMX-7514 | Digital Output | Voltage Maximum Switching Current Potential Free Isolation to Computer GND | 100 mA Yes 1000 V |
| EMX-7514 | Digital Output | Voltage Maximum Switching Current Potential Free Isolation to Computer GND Connector Type | 100 mA Yes 1000 V ERNI 160-Pin |
| | | Voltage Maximum Switching Current Potential Free Isolation to Computer GND Connector Type Channels | 100 mA Yes 1000 V ERNI 160-Pin 64 |
| EMX-7514 EMX-7515 | Digital Output Digital Input | Voltage Maximum Switching Current Potential Free Isolation to Computer GND Connector Type Channels Logical High Logical Low Isolation to | 100 mA Yes 1000 V ERNI 160-Pin 64 2.8 V to 60 V |
| | | Voltage Maximum Switching Current Potential Free Isolation to Computer GND Connector Type Channels Logical High Logical Low | 100 mA Yes 1000 V ERNI 160-Pin 64 2.8 V to 60 V < 2 V |
| | | Voltage Maximum Switching Current Potential Free Isolation to Computer GND Connector Type Channels Logical High Logical Low Isolation to Computer GND | 100 mA Yes 1000 V ERNI 160-Pin 64 2.8 V to 60 V < 2 V 1000 V |
| | Digital Input | Voltage Maximum Switching Current Potential Free Isolation to Computer GND Connector Type Channels Logical High Logical Low Isolation to Computer GND Connector Type Channels Logical High | 100 mA Yes 1000 V ERNI 160-Pin 64 2.8 V to 60 V < 2 V 1000 V ERNI 160-Pin 64 (Eight 8-Bit Ports) |
| | | Voltage Maximum Switching Current Potential Free Isolation to Computer GND Connector Type Channels Logical High Logical Low Isolation to Computer GND Connector Type Channels V OUT (high) | 100 mA Yes 1000 V ERNI 160-Pin 64 2.8 V to 60 V < 2 V 1000 V ERNI 160-Pin 64 (Eight 8-Bit Ports) > 2 V to 60 V |
| | Digital Input | Voltage Maximum Switching Current Potential Free Isolation to Computer GND Connector Type Channels Logical High Logical Low Isolation to Computer GND Connector Type Channels V OUT (high) V OUT (low) | 100 mA Yes 1000 V ERNI 160-Pin 64 2.8 V to 60 V < 2 V 1000 V ERNI 160-Pin 64 (Eight 8-Bit Ports) > 2 V to 60 V < 1.5 V @ 300 mA |
| EMX-7515 | Digital Input | Voltage Maximum Switching Current Potential Free Isolation to Computer GND Connector Type Channels Logical High Logical Low Isolation to Computer GND Connector Type Channels V OUT (high) | 100 mA Yes 1000 V ERNI 160-Pin 64 2.8 V to 60 V < 2 V 1000 V ERNI 160-Pin 64 (Eight 8-Bit Ports) > 2 V to 60 V |

| Ordering Information | | | |
|----------------------------|---|--|--|
| Model (Part No.) | Configuration | | |
| EMX-7510 (70-0409-190R) | 64-CH DIO, Source/Sink, 60 V max Static I/O | | |
| EMX-7511 (70-0409-401R) | 64-CH, DIO TTL, Static I/O | | |
| EMX-7512 (70-0409-402R) | 64-CH, DIO LV TTL, Static I/O | | |
| EMX-7513 (70-0674-000R) | 32DI/DO, Isolated Switch card, 60 V | | |
| EMX-7514 (70-0672-000R) | 64DO, Isolated Switch card, 60 V | | |
| EMX-7515 (70-0673-000R) | 64 DI, 60 V max, Isolated Static I/O | | |
| EMX-7519 (70-0409-400R) | 64-CH DO, Source/Sink, 60 V max Static | | |
| 70-0409-160R | Strain relief bracket kit (without connector) | | |
| 27-0088-160 | Mating connector housing 160 pin (without crimp pins) | | |
| 52-0109-000R | Crimp Pins (one bag contains 100 nos crimp pins) | | |
| 46-0010-000 | Crimp tool (DIN) | | |
| 46-0011-000 | Extraction tool (DIN) | | |
| 70-0367-205R | Terminal Block | | |



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