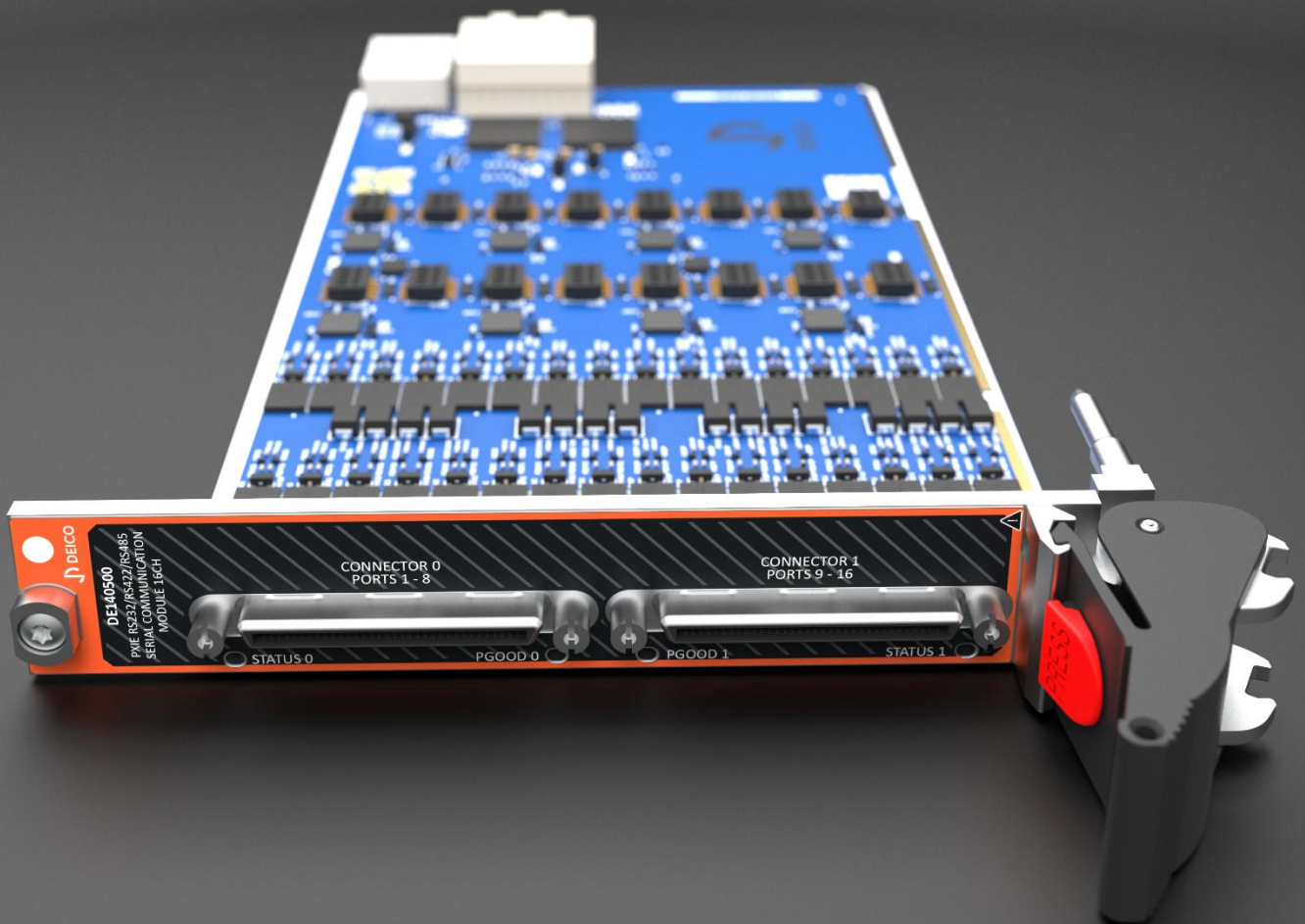# DEICO

PXI Express Systems
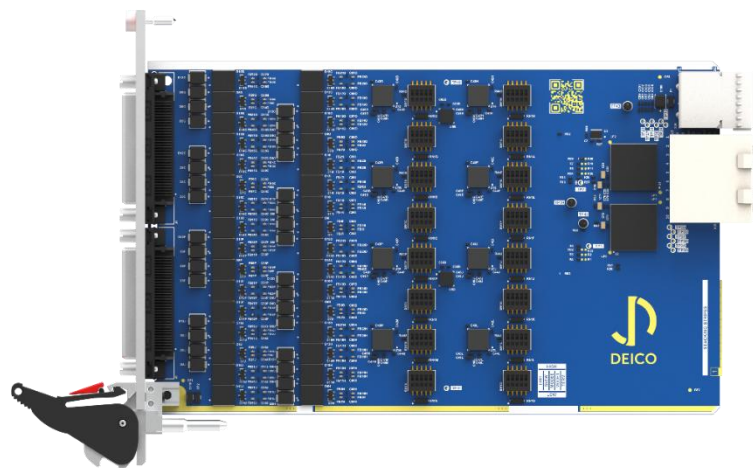
SERIAL COMMUNICATION MODULES

PXI Express Systems
Serial Communication Modules

Product Overview

DEICO's PXIe serial communication modules provide high-speed connectivity for RS-232, RS-422, and RS-485 interfaces within PXIe test and measurement systems. These modules are available in 8-channel and 16-channel configurations, and they offer a compact and efficient solution for applications demanding high-throughput serial communication.

- Supports RS-232, RS-422, and RS-485 standards.
- Available in 8 and 16 channel densities.
- High-speed PXIe interface for maximum data throughput.
- Ideal for automated test, industrial control, and high-speed data acquisition.

Serial Communication Modules	
Product Code	**Description**
DE140500	PXIe RS232/RS422/RS485 Serial Communication Module 16Ch
DE140501	PXIe RS232/RS422/RS485 Serial Communication Module 8Ch

1.	**ENVIRONMENTAL SPECIFICATIONS**	
1.1	**STORAGE TEMPERATURE:**	-40°C to 71°C (Tested in accordance with IEC 60068-2-1 and IEC 60068-2-2. Meets MIL-PRF-28800F Class 3 limits.)
1.2	**OPERATING TEMPERATURE:**	0°C to 55°C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2. Meets MIL-PRF-28800F Class 3 low temperature limit and MIL-PRF-28800F Class 2 high temperature limit.)
1.3	**OPERATING HUMIDITY:**	10% to 90%, noncondensing (Tested in accordance with IEC 60068-2-78.)
1.4	**STORAGE HUMIDITY:**	5% to 95%, noncondensing (Tested in accordance with IEC 60068-2-78.)
1.5	**VIBRATION:**	5Hz to 500Hz, 0.3grms (IEC 60068-2-64)
1.6	**MECHANICAL SHOCK:**	30g peak, half-sine, 11ms pulse (Tested in accordance with IEC 60068-2-27. Meets MIL-PRF-28800F Class 2 limits.)
1.7	**ACOUSTIC:**	ISO-7779

2.	**ELECTROMAGNETIC COMPATIBILITY**
2.1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements (IEC 61326-1).
2.2	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement (EN 55011).
2.3	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement (EN 55022).
2.4	Information technology equipment – Immunity characteristics – Limits and methods of measurement (EN 55024).
2.5	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement (AS/NZS CISPR 11).
2.6	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement (AS/NZS CISPR 22).
2.7	Radiated and conducted emissions (FCC 47 CFR Part 15B).
2.8	Industrial, scientific and medical (ISM) equipment (ICES-001).

3. ORDERING INFORMATION

PRODUCT CODE	**DE14**
TYPE	**00: CHASSIS**
	01: SYSTEM CONTROLLER
	02: RELAY MODULES
	03: MULTIPLEXER MODULES
	04: MULTIFUNCTION FPGA MODULES
	05: SERIAL COMMUNICATION MODULE
	07: MATRIX SWITCH MODULES
	08: DMM MODULES
	09: DAQ MODULES
	10: RF SWITCH MODULES
PRODUCT NUMBER	**00-99: PRODUCTION ORDER**
EXAMPLE	**DE140120 - PXIe CONTROLLER MODULE SMARC**

DEICO

DE140500 Technical Specifications

|	
SERIAL COM CHANNEL:	16Ch RS232, RS422, RS485 programmable
SERIAL COM DATA RATE:	RS232 1Mbps, RS422/RS485 20Mbps
POWER CONSUMPTION:	0.6amps @3.3V or 2W
CHANNEL PROTECTION:	±15KV ESD, IEC61000-4-5, Level 4, 4kV 1.2/50µs surge protection
INTERNAL TERMINATION:	Programmable for RS422/RS485

Schematics
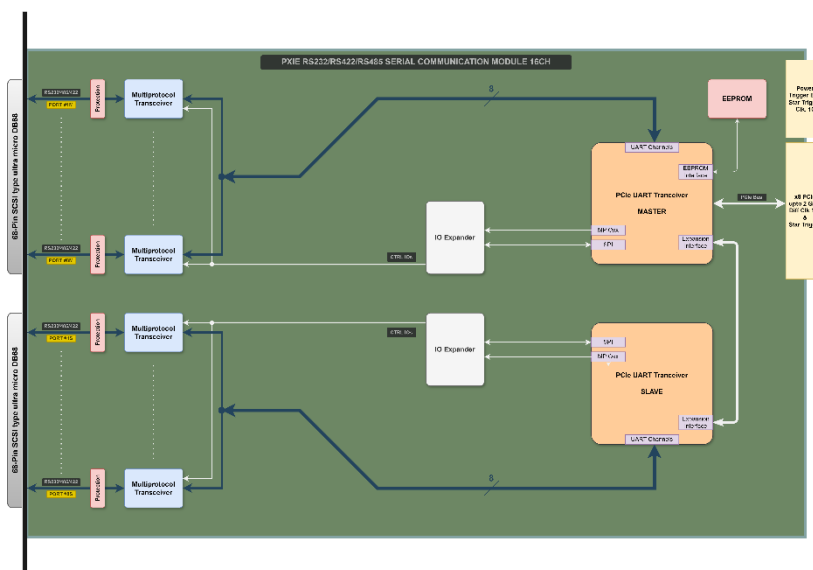
DE140501 Technical Specifications

SERIAL COM CHANNEL:	8Ch RS232, RS422, RS485 programmable
SERIAL COM DATA RATE:	RS232 1Mbps, RS422/RS485 20Mbps
POWER CONSUMPTION:	0.6amps @3.3V or 2W
CHANNEL PROTECTION:	±15KV ESD, IEC61000-4-5, Level 4, 4kV 1.2/50µs surge protection
INTERNAL TERMINATION:	Programmable for RS422/RS485

Schematics
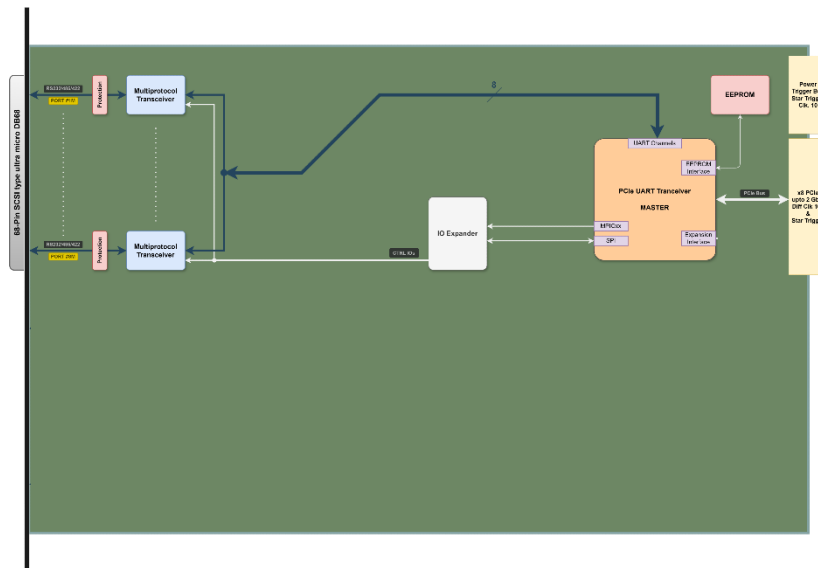
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