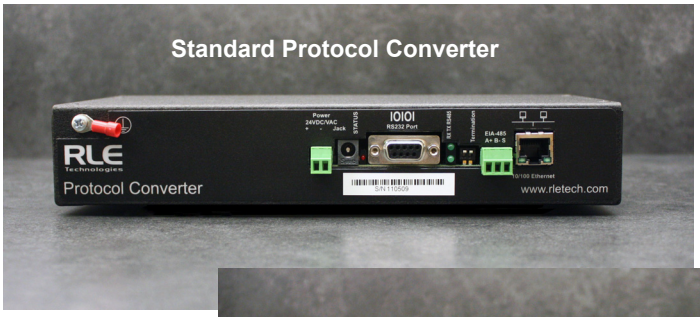
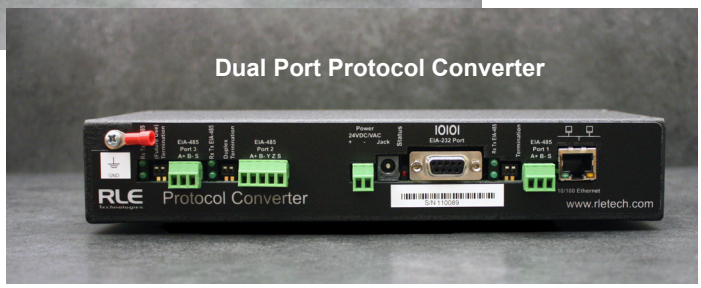




Raptor Protocol Converter

The Protocol Converter connects directly to equipment and converts the SNMP, BACnet, and Modbus protocols to one or more of these same protocols for integration into a building management system (BMS) or network management system (NMS). RLE offers two Protocol Converters:

- The standard Protocol Converter (FDS-PC) has one EIA-485 communications port.
- The dual port Protocol Converter (FDS-PC-DP) has three EIA-485 communications ports, for extended polling over multiple trunk lines.

The Protocol Converter can accept up to 1,024 inputs over 32 modules - this functionality allows a single Protocol Converter to flexibly integrate with multiple alarm and management systems.

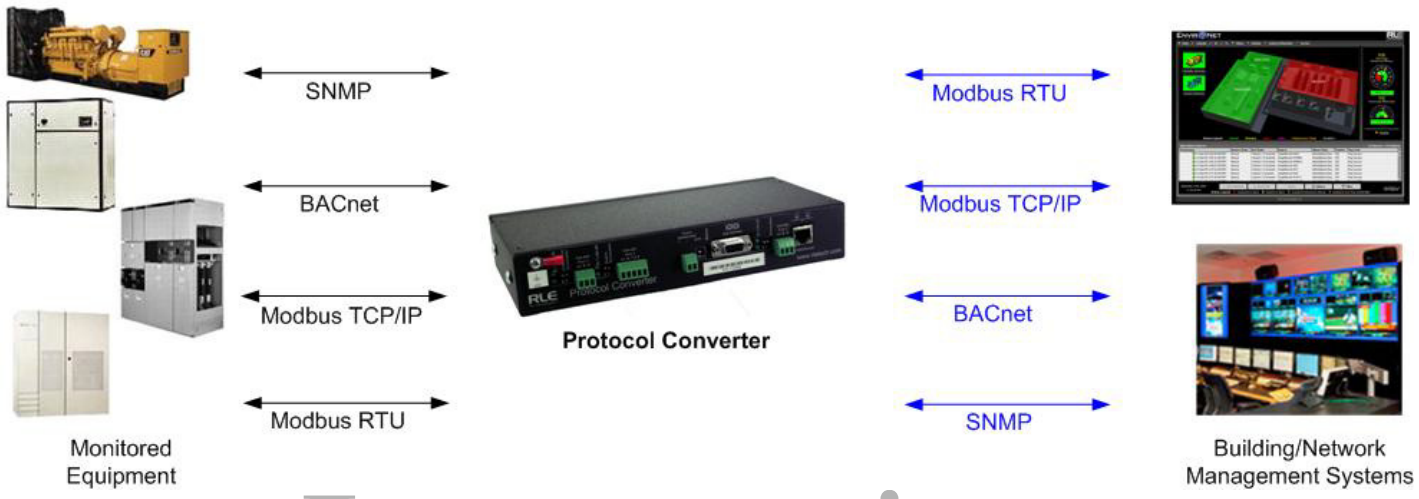
The Protocol Converter is ideal for environments where data from monitored equipment is incompatible with the protocols used by the BMS or NMS, especially in applications that feature legacy monitoring systems.

Features

- Multiple input and output protocols
- Monitor up to 1,024 Modbus registers, OIDs, or instances
- Connect up to 32 units, modules, or nodes
- Use the dual port Protocol Converter to connect to multiple trunk lines
- Alarm notification through email, SNMP
- Web interface simplifies configuration

Benefits

- Easy integration with a wide variety of equipment
- Communicates with building management and network management systems
- Flexible configuration
- Economical integration solution



Integration

Protocol Converter Specifications

Power	24VAC @ 600mA max, 50/60Hz, 24VDC @ 600mA max. (PSWA-DC-24 included)
Communication Ports	
Ethernet	10/100BaseT, RJ45 connector; 500VAC RMS isolation
EIA-232	DB9 female connector; 9600 baud; No parity, 8 data bits, 1 stop bit
EIA-485	1200, 2400, 9600 or 19200 baud (selectable); Parity: none, even or odd, 8 data bits, 1 stop bit Dual Port Protocol Converter contains 2 additional EIA-485 ports (Three total ports - Port 2 configurable for half- or full-duplex)
Protocols	
TCP/IP; HTML, TFTP	
SNMP	V1: V2C MIB-2 compliant; NMS Manageable with Get
Modbus (EIA-485)	Modbus Master/Slave; RTU mode; Supports Master codes 01, 02, 03, 04; Slave code 03
Modbus TCP/IP	Modbus Master/Slave; TCP/IP transmission protocol
BACNet/IP	ASHRAE STD 135-2004 Annex J; Port 3 on Dual Port Protocol Converter is BACnet MS/TP capable (Slave only)
SMTP (email)	Supports Client Authentication (plain and login); compatible with ESMTP Servers
Terminal Emulation (EIA-232)	VT100 compatible (for configuration and diagnostics only)
Protocols In **Protocols Out**	SNMP, Modbus EIA-485, Modbus TCP/IP, BACnet/IP SNMP, Modbus EIA-485, Modbus TCP/IP, BACnet/IP; BACnet MS/TP (Port 3 of Dual Port Protocol Converter only)
Login Security	
Web Browser Access (Ethernet)	1 Web password Read Only; 1 Web password Read/Write
Terminal Emulation Access	None
Maximum Number of units/modules/nodes	32
Maximum Number of registers/OIDs/instances	1,024
Indicators	
Network	1 Green/Red LED: Link/No Link; 1 Green Active (additional LEDs for Dual Port Protocol Converter)
EIA-485 Status	2 Green Transmit and Receive LEDs (additional LEDs for Dual Port Protocol Converter)
Operating Environment	
Operating Temperature	32ºF to 122ºF (0ºC - 50ºC)
Humidity	5% to 95% RH (Non-condensing)
Altitude	15,000 ft (4572m) max.
Storage Temperature	-4ºF to 185ºF (-20ºC - 85ºC)
Mounting	Desktop or rack mount (brackets included)
Dimensions	9.8”W x 5.3”D x 1.8”H (248mmW x 135mmD x 46mmH)
Weight	2.32 lb. (1.05kg)
Certifications	CE; ETL listed: conforms to UL 61010-1, EN 61010-1; certified to CSA C22.2 NO. 61010-1; RoHS compliant

Raptor

RLE Technologies

v2.0
(1/2014)

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