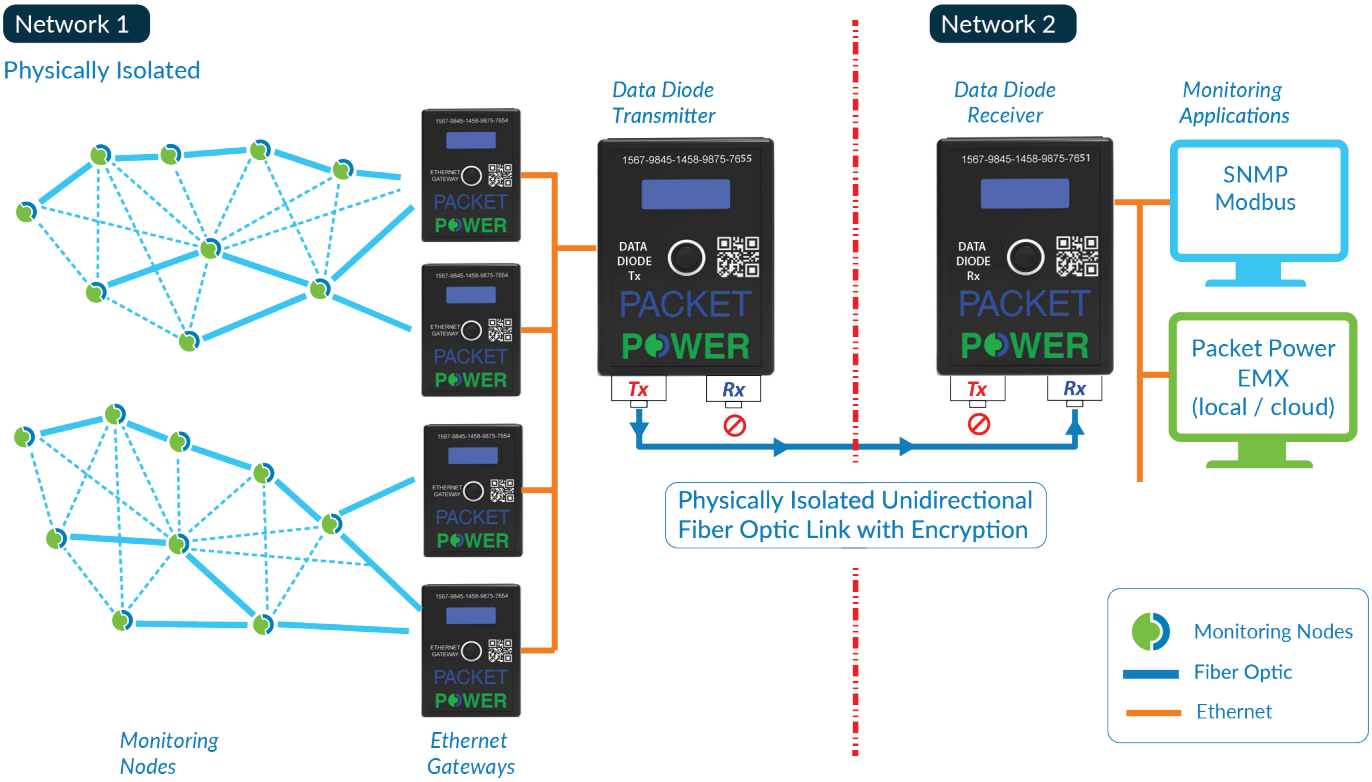
Data Diode

PACKETPOWER

Secure One-Way IP Network Bridge

Packet Power's Data Diode allows one-way secure transfer of monitoring data between two isolated IP networks via a unidirectional encrypted fiber optical link. The single direction of the optical link is hardware-based. It is physically impossible for the link to operate in the other direction regardless of any software operating on either end of the link.



Components

Data Diode Transmitter - select the monitoring units that will share data and set an encryption key

Data Diode Receiver - requires the same encryption key; data can be accessed using Modbus or SNMP protocols

Data Diode Optical Link - unidirectional 3- or 10-meter fiber optical cable

Key features

- Share monitoring data from up to six Packet Power Ethernet Gateways between unrelated IP networks (e.g. between a co-location services provider and its customer)
- Securely allow data from an isolated network to be sent to a cloud-based monitoring service

Technical Specifications

Communications

Gateways per site supported	Up to six Gateways per Data Diode Transmitter
Encryption	AES 256-bit
Compatible devices	All Packet Power GW03-XXXX and GW04-XXXX Gateways on current firmware
Local display	LCD for status and configuration; LED for general device status

Environmental & Mechanical

Operating temperature	0° to 40°C (32° to 104°F)
Operating humidity	10% to 90% non-condensing
Environmental rating	Indoor use / NEMA 1
Transmitter and Receiver size	Dimensions: 76mm x 94mm x 31mm; Weight: 136g (4.8 oz) per device
Fiber Optical Cable	2.2mm PE jacket duplex BFOC (ST) with one side disabled
Mounting options	DIN rail, screw, cable tie
External power supply	100 to 240V AC input; 50/60 Hz (5V DC) output
Plug types	C14, NEMA 5-15, CEE-7 Schuko, AS/NZS 3112 2000, BS 1363A, BS 546A, China CPCS-CCC
Power consumption	6W (for Transmitter and Receiver)
Power over Ethernet	Available, requires an external PoE splitter
Certifications	FCC, IC, CE; consult Packet Power for additional certifications

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