

Industrial Serial Device Servers

Prime Connect 4057s

The Optech Network Solutions Prime Connect 4057s is an industrial serial-to-Ethernet device server designed to connect serial equipment to an IP-based Ethernet network. It provides a single serial communication interface and supports RS-232, RS-422 and RS-485 communication, allowing legacy and industrial serial devices to be integrated into modern Ethernet-based systems. The underlying source specification supports the same three serial standards across the product variants.

The Optech Network Solutions Prime Connect 4057s is an industrial serial-to-Ethernet device server designed to connect legacy serial equipment to IP-based networks. It supports RS-232, RS-422, and RS-485 interfaces for seamless industrial device connectivity.

With TCP/IP networking and multiple operating modes, the device enables remote access, monitoring, and control of serial equipment over Ethernet. It supports data rates up to 921.6 kbps and offers flexible serial communication configurations.

Featuring web-based management, a metal enclosure, and a built-in watchdog timer, the Prime Connect 4057s is suitable for industrial communication environments. Flexible mounting options support desktop, wall-mounted, and DIN-rail installations with appropriate accessories.

Benefits

- Web-Based Device Management
- Automatic RS-485 Direction
- Configurable Serial Parameters
- Built-In Watchdog Timer
- Secure HTTPS Management
- Flexible Mounting Options

Features

- Serial-to-Ethernet Connectivity
- RS-232/422/485 Support
- 10/100 Mbps Ethernet
- TCP/IP Network Support
- Multiple Operating Modes
- 921.6 kbps Baud Rate

Applications

- Industrial Automation Systems
- SCADA Communication Networks
- PLC and RTU Connectivity
- Energy and Utility Monitoring

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- Serial Meter Integration
- Building Automation Systems
- Remote Equipment Monitoring

Technical Specification

Product Type	Serial Device Server
Ethernet Interface	1 × RJ45
Ethernet Speed	10/100 Mbps
Ethernet Standard	10BASE-T / 100BASE-TX
Ethernet Isolation	1.5 kV
Serial Interface	1 × Serial
Serial Connector	DB9 Male
Serial Standards	RS-232 / RS-422 / RS-485
Network Protocol	TCP/IP
Operating Modes	TCP Server / Client
Additional Modes	UDP / Real COM
Supported Modes	Reverse Telnet / RFC2217
Connection Modes	Ethernet Modem / Pair Connection
Baud Rate	50 bps–921.6 kbps
Data Bits	5 / 6 / 7 / 8
Stop Bits	1 / 1.5 / 2
Parity Modes	None / Even / Odd
Additional Parity	Space / Mark
Flow Control	RTS/CTS / DTR/DSR
Software Flow Control	XON/XOFF
RS-485 Resistors	1 kΩ / 150 kΩ
RS-485 Direction	Automatic Control
RS-485 Termination	120 Ω
RS-232 Signals	TxD / RxD / RTS / CTS
Additional RS-232	DTR / DSR / DCD / GND
RS-422 Signals	Tx± / Rx± / GND
RS-485 Four-Wire	Tx± / Rx± / GND

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RS-485 Two-Wire	Data± / GND
Network Management	DHCP / ARP / BOOTP
Name Resolution	DNS
Web Protocols	HTTP / HTTPS
Network Discovery	LLDP
Network Diagnostics	ICMP / IPv4
Management Protocols	SNMP / Telnet
Messaging Protocol	SMTP
Multicast Filtering	IGMP v1/v2
Web Management	Web Configuration
User Authentication	Local Authentication
Secure Management	HTTPS / TLS 1.2
Encryption Algorithms	AES-128 / RSA-1024
Hash Algorithms	SHA-1 / SHA-256
Serial Drivers	Real COM / TTY
Watchdog Function	Automatic Reboot
Power Inputs	1 × Input
Input Voltage	12–48 VDC
Power Connection	DC Input
Enclosure Material	Industrial Metal
Dimensions With Ears	75.2 × 80 × 22 mm
Dimensions Without Ears	52 × 80 × 22 mm
Weight	Approx. 340 g
Mounting Options	Desktop / Wall / DIN-Rail
Standard Operating Temperature	0°C to 60°C
Wide Operating Temperature	-40°C to 75°C
Storage Temperature	-40°C to 75°C
Relative Humidity	5%–95% RH
Humidity Condition	Non-Condensing

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Serial Communication				
The Prime Connect 4057s provides a single serial interface that can be configured for supported serial communication standards.				
RS-232	**RS-422**	**RS-485**	**RS-485 4-wire**	**RS-485 2-wire**
Supported signals include:	Supported signals:	The device supports both:		
TxD	Tx+		Tx+	Data+
RxD	Tx-		Tx-	Data-
RTS	Rx+		Rx+	GND
CTS	Rx-		Rx-	
DTR	GND		GND	
DSR				
DCD				
GND				

Network Management	**Network Communication Modes**	**Security Features**
Network Management Functions	Serial-to-Ethernet Operating Modes	Network Security Features
DHCP Client	TCP Server	Local user authentication
ARP	TCP Client	HTTPS-based secure management
BOOTP	UDP	TLS 1.2
DNS	Real COM	AES-128
HTTP	Reverse Telnet	SHA-1
HTTPS	RFC2217	SHA-256
ICMP	Ethernet Modem	RSA-1024
IPv4	Pair Connection	
LLDP		
SMTP		
SNMP		
TCP/IP		
Telnet		
UDP		
IGMP v1/v2 filtering		

RS-485 Configuration	**Physical Characteristics**	**Environmental Specifications**
Automatic data-direction control	Metal Enclosure	**Standard Temperature Version**
1 kΩ / 150 kΩ configurable pull-high/pull-low resistance	Dimensions with Mounting Ears: 75.2 × 80 × 22 mm	
	Dimensions without Mounting Ears: 52 × 80 × 22 mm	Operating Temperature: 0℃ to 60℃
120 Ω termination	Weight: Approximately 340 g	Storage Temperature: -40℃ to 75℃
2-wire RS-485		Relative Humidity: 5%-95%, Non-Condensing
4-wire RS-485		
		Wide Temperature Version
		Operating Temperature: -40℃ to 75℃
		Storage Temperature: -40℃ to 75℃
		Relative Humidity: 5%-95%, Non-Condensing

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