



Industrial Serial Ethernet Gateway RS-232/422/485 2x10/100Base-T(X)

SEG-12E-1

Industrial Secure Serial Port to Dual Ethernet Gateway

The **SEG-12E** is a secure, single port RS-232/422/485 to two ports LAN device server with standard features that include TCP/IP interface and versatile operation modes including Virtual Com, Serial Tunnel, TCP Server, TCP Client, and UDP. Configure multiple devices and set the mappings of Virtual Com using the SEG-Tool Windows utility available for download online at fiberopticlink.com.

The RLH serial to Ethernet gateway is capable of simultaneous data transfer up to 5 redundant host PCs, avoiding Ethernet connection breakdowns or host PC failures. HTTPS, SSH, and SSL encryption features provide security for critical data transmission.

The device supports RS-232/422/485 and provides 12~48 VDC dual redundant power inputs to ensure non-stop operation. It is designed to operate in harsh industrial environments with a wide -40~70°C operating temperature range, and rugged IP-30 housing construction. These features make the SEG-12E Series the best solution for secure serial-to-Ethernet critical data communication.

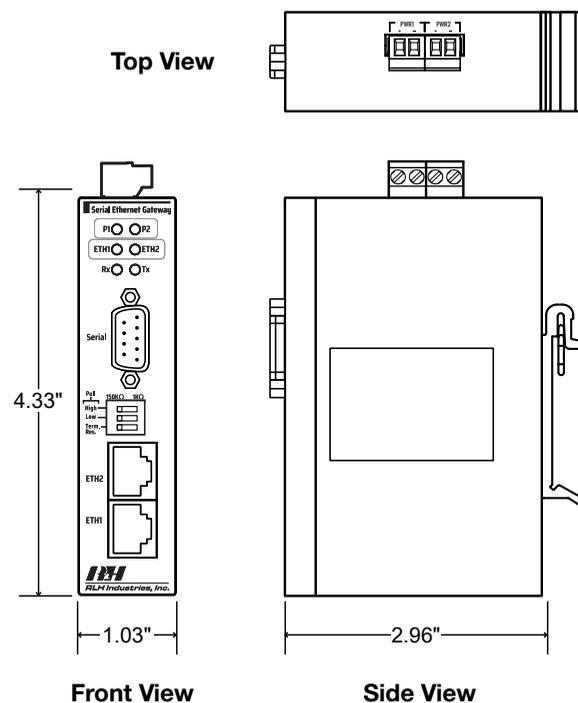
Key Features

- Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP
- Network Protocols: ICMP, IP, TCP, UDP, DHCP, BOOTP, SSH, DNS, SNMP v1/v2c, HTTPS, SMTP
- 2x10/100Base-T(X) RJ45 ports 1xRS-232/422/485 in DB9 connector
- Event Warning by Syslog, Email, SNMP trap
- 12~48VDC dual redundant power inputs
- Hardened to operate in -40°C ~ 70°C (-40°F ~ 158°F)
- Din rail or wall mountable (wall mount ears included)
- 5 Year Warranty



Industrial Serial Ethernet Gateway

Dimensions





General Specifications

RJ45 Ports:	2x 10/100 Base-T(X) Ports in RJ45 Auto MDI/MDI-X	
Serial Port:	Connector:	DB9
	Operation Mode:	RS-232/422/485
	Serial Baud Rate:	110 bps to 921.6 Kbps
	Data Bits:	7, 8
	Parity:	odd, even, none, mark, space
	Stop Bits:	1, 1.5, 2
	RS-232:	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
	RS-422:	Tx-, Tx+, Rx+, Rx-
	RS-485:	4 wire: Tx-, Tx+, Rx+, Rx-, 2 wire: Data-, Data+
	Flow Control:	XON/XOFF, RTS/CTS, DTR/DSR
Network:	ICMP, IP, TCP, UDP, DHCP, BOOTP, SSH, DNS, SNMP V1/V2c, HTTPS, SMTP	
LED Indicators:	Power Indicator:	2 x LEDs, PWR 1(2) / Ready:, Green On: Power is on
	10/100TX RJ45 port indicator:	Green for port Link/Act at 100Mbps
	Serial TX / RX LEDs:	Amber: Serial port is receiving data, Green: Serial port is transmitting data
Power:	Redundant Input Power	Dual DC inputs. 12-48VDC on 4-pin terminal block
	Power consumption:	4.8w Max. (0.05A-0.1A)
	Protections:	Overload current Protection present, Reverse polarity protection present
Physical:	Enclosure:	IP-30
	Dimensions:	26 (W) x 75 (D) x 110 (H) mm (1.02 x 2.95 x 4.33 inch)
	Weight:	227g (8oz)
Temperature	Operating: -40°C ~ 70°C (-40°F ~ 158°F)	
Humidity:	5% to 95% Non-condensing	
Standards:	EMC:	CE EMC (EN 55024, EN 55032), FCC Part 15B
	EMI:	EN 55032 CISPR 32, EN 61000-3-2, EN 61000-3-3 FCC Part 15B Class A
	EMS:	EN 55024 (IEC/EN61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4 (EFT), IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8 (PFMF), IEC/EN 61000-4-11 (DIP)
Stabiity:	IEC60068-2-27 (Shock), IEC60068-2-31 (Free Fall), IEC60068-2-6 (Vibration)	
Safety:	FCC Class A, EN 60950-1 (LVD), UL61010-1, UL61010-2-201, File Number: E480850	
MTBF:	1,478,078 hours	
Warranty:	5 Years - Visit www.fiberoptic.com for warranty information and coverage details	

Ordering Information

Description	Part Number
Serial-to-Ethernet Gateway, RS232/422/485 Serial to (2) 10/100 Ethernet, 12-48VDC	SEG-12E-1

- Contact your RLH Sales Representative for more information

Contact

By Mail:	ATTN: Sales RLH Industries, Inc. 936 N. Main Street Orange, CA 92867	
By Phone:	Local	714-532-1672
Sales/Service	Toll Free	800-877-1672
By Email:	info@fiberopticlink.com	
By Fax:	714-532-1885	

Support

By Email:	support@fiberopticlink.com
By Phone:	Toll Free 855-754-2497