

915U-2 Wireless Mesh Networking I/O and Gateway

Long range, scalable, industrial multiple I/O node and gateway



Description

The ELPRO 915U-2 Wireless Mesh Networking I/O and Gateway is a multiple I/O node that extends communications to sensors and actuators in local, remote, or difficult-to-reach locations. Designed with a long-range, license-free wireless transceiver, the 915U-2 can provide IP-based mesh networking across sprawling industrial environments typical of industrial applications.

Capable of ad-hoc mesh networking, roaming and discovery, as well as deterministic mesh, the 915U-2 can serve as an end node, a routing node, or a network gateway. Scalable to thousands of nodes, its gather-scatter and block mapping technology offers efficient utilization of network resources and eases integration into complex monitoring and control systems. Integrated Modbus^{*} server capability allows further I/O expansion through the use of ELPRO 115S expansion modules.

Features

- 902–928 MHz frequency hopping spread spectrum (FHSS) up to 1W RF Power
- 869 MHz wideband up to 500 mW for Europe
- Self-healing IP-based wireless mesh networking
- Multi-hop repeater and gateway functionality
- Gather-scatter and block mapping
- Serial client/server/multicast Modbus TCP to RTU gateway
- Configurable digital, pulse, and analog I/O to 14-bit resolution
- 10/100Base-T IEEE 802.3 Ethernet
- Secure 256-bit AES encryption
- Modbus RTU and TCP support
- Over-the-air network diagnostics and configuration
- Optional support for logging of register variables & Event logging

Applications

- Oil and gas production and distribution
- · Pipeline monitoring and leak detection
- Mining operations infrastructure
- Water treatment facilities
- Water and wastewater systems

Specifications

SPECIFICATION	DESCRIPTION
Transmitter and Reco	eiver
Frequency	902–928 MHz ①, 869.525 MHz, 869.875 MHz ①
Transmit power	1 mW (+0 dBm) to 1W (+30 dBm) @
	1 mW (+0 dBm) to 500 mW (+27 dBm) 3
Transmission	Frequency hopping spread spectrum (FHSS) ③
	Single frequency ③
Modulation	Frequency shift keying (FSK)
Receiver sensitivity	–109 dBm @ 19.2 kbps (3% FER) @
	–109 dBm @ 14.4 kbps (3% FER) 3
Channel spacing	50 x 250 kHz @ @, single 250 kHz 3
Data rate	19.2–115.2 kbps ① ②, 14.4–76.8 kbps ① ③
Range (LoS)	20 miles (32 km) @ 1W @ 5
	6 miles (10 km) @ 500 mW 3 \$
Antenna connector	1 x female SMA standard polarity

Specifications (continued)

	DESCRIPTION	SPECIFICATION	DESCRIPTION			
Input and Output		Power Supply				
Discrete input	8 digital I/O (1–4 configurable as PI or PO)	Nominal supply	10.8–30 Vdc, under/over voltage protection			
	On-state voltage: <2.1 Vdc	Average current drav				
	Wetting current: 5 mA Max. I/P pulse rate–DI 1/2: 50 kHz. DI 3/4: 1 kHz	Transmit current draw 500 mA @ 12V (1W)), 250 mA @ 24V (1W)		
	Min. I/P pulse width–DI 1/2: 10 µs, PI 3/4: 0.2 ms	Note: Specifications are subject to change.				
Discrete output	8 digital I/O (1-4 configurable as PI or PO)	① Country-specific configuration (specified at ④ 18 channels New Zealand				
	On-state voltage-DO max.: 30 Vdc	time of order)		⑤ Typical maximum line-of-sight range		
	Wetting current–DO max.: 200 mA Max O/P pulse rate–PO max. rate: 1 kHz	② 900 MHz ISM band ③ Maximum distance 3937' (1200m) ③ 869 MHz ISM band (Europe) ⑦ Optional, see 915U-TCP datasheet				
Analog inputs	4 Al (2 differential, 2 single ended)	© 003 WI12 ISWI Balla (Lulope/	O Uptional, see 9150-10P	datasheet	
	Current range: 0–24 mA	Accessories				
	Current resolution: 14 bits	Accessories				
	Accuracy (current): 0.1%	PRODUCT CODE DESCRIPTION				
	Voltage input range: Al 1/2: 0–25V, Al 3/4: 0–5V Voltage resolution: 14 bits	Soft Feature Keys				
	Accuracy (voltage): 0.1%	915U-AT	Event Logging feature	,		
Analog output	2 AO (sourcing)	915U-LOG	Data logging feature l	кеу		
	Current range: 0–24 mA	Interface				
	Current resolution: 13 bits	915U-TCADP	T-type TCP thermocouple adapter, uses two analog inputs and two analog outputs			
	Accuracy (current): 0.1%	Antennas - 900 MHz	0 1			
Ethernet Port		DG800-1/5				
Ethernet port	10/100Base-T, RJ-45 connector, IEEE 802.3	DG900-1/5		16.4' (5m) coaxial cable		
Link activity	Link, 100Base-T via LED	CFD890EL	Dipole antenna, SMA	male, mounting bracket,		
Serial Port			2 dBi gain, 16' (5m) co			
RS-232	EIA-562 (R-45 connector)	SG900EL		ype female, 5 dBi gain		
RS-485	2-pin terminal block, non-isolated 🛞	SG900-6	Collinear antenna, N-1	ype female, 8 dBi gain		
Data rate (bps)	1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 76800, 115200, 230400	Cables ETH-C5A	Ethernet cable, 6' (1.8	m), straight through,		
Serial settings	Serial settings 7/8 data bits, stop/start/parity (configurable)		RJ-45 to RJ-45			
-		SER-RJ45	Configuration cable, F	S-232 serial, DB-9		
System address	ESSID, 1 to 31-character text string		Configuration cable, F remale to RJ-45	S-232 serial, DB-9		
System address Protocols supported	ESSID, 1 to 31-character text string TCP/IP, UDP, HTTP, FTP, TFTP, TELNET, Modbus, Modbus TCP	Surge Diverters	remale to RJ-45			
System address Protocols supported User configuration	ESSID, 1 to 31-character text string TCP/IP, UDP, HTTP, FTP, TFTP, TELNET, Modbus, Modbus TCP All user-configurable parameters via HTTPS	Surge Diverters CSD-SMA-2500	remale to RJ-45 SMA surge diverter for	use with CC10/CC20-SMA		
Protocols supported	ESSID, 1 to 31-character text string TCP/IP, UDP, HTTP, FTP, TFTP, TELNET, Modbus, Modbus TCP All user-configurable parameters via HTTPS Unit details, I/O mappings and parameters, radio settings (for more information, refer to the user manual)	Surge Diverters CSD-SMA-2500 CSD-N-6000	remale to RJ-45 SMA surge diverter for Coaxial surge diverter N female	use with CC10/CC20-SMA bulkhead N female to		
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System address Protocols supported User configuration Configurable parameters Security ED Indication and Di LED indication Reported diagnostics Network management Compliance EMC RF (radio) Hazardous area Safety UL	ESSID, 1 to 31-character text string TCP/IP, UDP, HTTP, FTP, TFTP, TELNET, Modbus, Modbus TCP All user-configurable parameters via HTTPS Unit details, I/O mappings and parameters, radio settings (for more information, refer to the user manual) Modbus TCP/ RTU gateway Embedded Modbus master/slave for I/O transfer Data encryption, 256-bit AES, secure HTTP protocol agnostics Power/OK, TX/RX, RS-232, RS-485, digital I/O, analog I/O status RSSI measurements (dBm), connectivity information/statistics, system log file Optional network management system FCC Part 15; EN 301 489; AS 3548 FCC Part 15.247; EN 300 220; AS 4268.2; RFS29 NZ UL/CSA Class I, Division 2; ATEX; IECEx Na IIC IEC 60950 (RoHS compliant)	Surge Diverters CSD-SMA-2500 CSD-N-6000 MA15D1SI/D2SI IOP32D Power Supplies PSG60E Notes: More access cables, and mounti Ordering PRODUCT CODE 915U-2 915U-2	remale to RJ-45 SMA surge diverter for Coaxial surge diverter N female Power supply surge di 240 Vac/15A Signal surge diverter, PS-DINAC-12DC-OK DIN rail power supply, ssories are available ng brackets. Refer to DESCRIPTION Wireless mesh I/O Wireless mesh I/O	use with CC10/CC20-SMA , bulkhead N female to verter, 110 Vac/15A or 2 x 2-wire/1 x 4-wire DIN rail power supply, 100 85–264 Vac, 24 Vdc/2.5A for this product includ b our Website for deta FREQUENCY 902–928 MHz 869.525 MHz	TD032034EN ing antennas, ils. RF POWER 1W 500 mW	
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