

RF Ethernet Reader

Description

The Elpas RF Ethernet Reader is a supervised; 433MHz fixed receiving device. The reader is designed to detect, and relay real-time 'Location' and 'State' data from Elpas Active RFID Asset, Personnel or Infant Protection Tags to host applications.

The RF Ethernet Reader supports standard IT network communications and is easily integrated onto wired or wireless Ethernet/Wi-Fi networks to enable indoor, facility-wide monitoring and tracking of assets or personnel in real-time.

Architecturally attractive, the RF Ethernet Reader is designed to be flush mounted into dropped (false) ceilings. The reader supports large tag populations at read-distances up to 20m/65ft (360° coverage area) in open office environments and is remotely configurable for customized applications. On-board I/O ports enable the monitoring of one general purpose analogue input and control of two open-collector digital switched outputs.

The RF Ethernet Reader supports XML messaging technology for integration with external control and monitoring applications plus full-duplex RS-485 data transmission with up to 15 Elpas2 BUS devices.



Elpas RF Ethernet Reader

Product Features

Architecturally unobtrusive, low cost design
Real-time tag monitoring and tracking
Read range up to 20m/65ft (360° coverage area)
Wired/Wireless Ethernet/Wi-Fi compatibility
Handles large tag populations
Remote configuration and range tuning
Onboard digital I/O ports
RS-485 connectivity
XML messaging technology

Applications & Uses

Patient identification
Assisted living facilities
Infant protection (Elpas BabyMatchTM)
Nurse/Patient call
Wandering patient supervision
Entrance/Exit based alarming
Hands free access control
Mobile asset management & loss prevention
Personnel and visitor safety

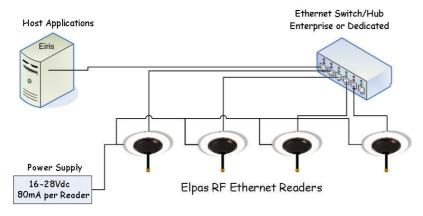


Cherating Frequency Ethernet Ethernet 10/100Base – TX (auto-sensing) Ethernet Specification RS-485 BUS 230Kbit/sec Read-Range (Note 1) Tag Density Up to 125 tag messages/second Message Length 4-31 byte messages (encapsulated for messages > 4 bytes) Buzzer Indicator Upon power-up: Lites continuously Green LED Indicator Upon power-up: Lites continuously Upon power-up: Lites continuously Unregistered in EIRIS: Toggles on/off every second Tag/Badge Detection: Flashes once per message Encoding Factory programmed ID Input/Outputs 1 dry contact analogue input, 2 open collector digital outputs (up to 100mA) Power Requirements Central Specifications White polycarbonate plastic Dimensions 17cm x 4 cm (6.6 inches x 1.6 inches) Weight 20grams/To84 ourses approximate Tamper Protection Open State's pring-loaded switch button Female RP SMA connector (RF antenna) F	Operational Specification	e e		
Ethernet 10/100Base –TX (auto-sensing) Ethernet Specification Version 2.0 / IEEE 802.3, Ethernet II frame type, UDP protocol RS-485 BIS 230Kbit/sec Read-Range (Note 1) Installation grid: 20m/65ft radius Sensitivity -102dbm Tag Density Up to 125 tag messages/second Message Length 4-31 byte messages (encapsulated for messages > 4 bytes) Buzzer Indicator Upon power-up: Remotely configurable Device Malfunction: Beeps continuously Green LED Indicator Upon power-up: Lites continuously Green LED Indicator Upon power-up: Lites continuously Red LED Indicator Corrupted firmware- lights continuously Service Pin Generates service message Encoding Factory programmed ID Input/Outputs 1 dry contact analogue input, 2 open collector digital outputs (up to 100mA) Power Requirements 16-28Vdc, 80mA at 24Vdc=2W Generals Specifications Mounting Celling flush mount Construction Dimensions 1 7cm x 4 cm (6.6 inches x 1.6 inches) Weight 200grams/7.054 ounces approximate Tamper Protection Female RP SMA connecto				
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Read-Range (Note 1) Installation grid: 20m/65ft radius Sensitivity -102dbm Tag Density Up to 125 tag messages/second Message Length 4-31 byte messages (encapsulated for messages > 4 bytes) Upon power-up: Remotely configurable Device Malfurction: Beeps continuously Green LED Indicator Upon power-up: Lites continuously Corrupted firmwarer lights continuously Urnegistered in EIRIS: Toggles on/off every second Tag/Badge Detection: Flashes once per message Encoding Factory programmed ID Input/Outputs 1 dry contact analogue input, 2 open collector digital outputs (up to 100mA) Power Requirements Ceneral Specifications Mounting Celling flush mount Construction White polycarbonate plastic Dimensions 17 cm x 4 cm (6.6 inches x 1.6 inches) Weight 200 grams/7.054 ounces approximate Tamper Protection Open 'State' spring-loaded switch button Female R.P. SMA connector (RF antenna) Female R.P. SMA connector (Ethernet) Four-position fixed terminal block (R s-485 Bus & 24Vdc) Two-position fixed terminal block (C 3-485 Bus & 24Vdc) Two-position fixed terminal block (C 3-485 Bus & 24Vdc) Two-position fixed terminal block (2 digital outputs) Ciperating Environment Remote Configuration and Supervision FCC & CE Compliance FCC PART 15, Sub-part B, Class B (Grant # pending) EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
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Red LED Indicator Corrupted firmware- lights continously Unregistered in EIRIS: Toggles on/off every second Tag/Badge Detection: Flashes once per message Service Pin Generates service message Encoding Factory programmed ID Input/Outputs 1 dry contact analogue input, 2 open collector digital outputs (up to 100mA) Power Requirements General Specifications Mounting Ceiling flush mount Construction White polycarbonate plastic Dimensions 17cm x 4 cm (6.6 inches x 1.6 inches) Weight 200grams/7.054 ounces approximate Tamper Protection Open 'State' spring-loaded switch button Female RP SMA connector (RF antenna) Female RJ-45 (8P8C) connector (Ethernet) Four-position removable terminal block (RS-485 Bus & 24Vdc) Two-position fixed terminal block (2 digital outputs) Operating Environment Temp: -10°C to 70°C (14°F to 159°F); Humidity: 20% to 80% non-condensing Storage Temperature FCC & CE Compliance FCC PART 15, Sub-part B, Class B (Grant # pending) EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22	Buzzer Indicator			
Red LED Indicator Unregistered in EIRIS: Toggles on/off every second Tag/Badge Detection: Flashes once per message Service Pin Generates service message Encoding Factory programmed ID Input/Outputs 1 dry contact analogue input, 2 open collector digital outputs (up to 100mA) Power Requirements 16-28 Vdc, 80mA at 24 Vdc=2W General Specifications Wounting Construction White polycarbonate plastic Dimensions 17cm x 4 cm (6.6 inches x 1.6 inches) Weight 200grams/7.054 ounces approximate Tamper Protection Open 'State' spring-loaded switch button Female RP SMA connector (RF antenna) Female RJ-45 (8PSC) connector (Ethernet) Female RJ-45 (8PSC) connector (Ethernet) Device Interfaces Four-position fixed terminal block (1 analogue input) Three-position fixed terminal block (2 digital outputs) Operating Environment Temp: -10°C to 70°C (14°F to 159°F); Humidity: 20% to 80% non-condensing Storage Temperature -40° to 70°C (-40° to 159°F) Remote Configuration and Supervision EIRIS 4.6.3 (or higher) software FCC PART 15, Sub-part B, Class B (Grant # pending) EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22	Green LED Indicator	Upon power-up: Lites continuously		
Encoding Factory programmed ID	Red LED Indicator	Unregistered in EIRIS: Toggles on/off every second		
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Power Requirements 16-28Vdc, 80mA at 24Vdc=2W General Specifications Mounting Ceiling flush mount Construction White polycarbonate plastic Dimensions 17cm x 4 cm (6.6 inches x 1.6 inches) Weight 200grams/7.054 ounces approximate Tamper Protection Open 'State' spring-loaded switch button Female RP SMA connector (RF antenna) Female RP-45 (8P8C) connector (Ethernet) Four-position removable terminal block (RS-485 Bus & 24Vdc) Two-position fixed terminal block (1 analogue input) Three-position fixed terminal block (2 digital outputs) Operating Environment Storage Temperature Remote Configuration and Supervision FCC & CE Compliance 16-28Vdc, 80mA at 24Vdc=2W Ceiling flush mount White polycarbonate plastic 17cm x 4 cm (6.6 inches x 1.6 inches) Weight 200grams/7.054 ounces approximate 17cm x 4 cm (6.6 inches x 1.6 inches) Weight 200grams/7.054 ounces approximate Four-position Female RJ-45 (8P8C) connector (Ethernet) Four-position fixed terminal block (RS-485 Bus & 24Vdc) Two-position fixed terminal block (2 digital outputs) Three-position fixed terminal block (2 digital outputs) Female RJ-45 (8P8C) connector (Ethernet) Four-position fixed terminal block (2 digital outputs) Three-position fixed terminal block (2 digital outputs) Female RJ-45 (8P8C) connector (Ethernet) Four-position fixed terminal block (2 digital outputs) Female RJ-45 (8P8C) connector (Ethernet) Four-position fixed terminal block (1 analogue input) Three-position fixed terminal block (2 digital outputs) Female RJ-45 (8P8C) connector (Ethernet) Four-position fixed terminal block (2 digital outputs) Female RJ-45 (8P8C) connector (Ethernet) Four-position fixed terminal block (1 analogue input) Three-position fixed terminal block (2 digital outputs) Female RJ-45 (8P8C) connector (Ethernet) Four-position fixed terminal block (1 analogue input) Three-position fixed terminal block (2 digital outputs) Four-position fixed terminal block (1 analogue input) Three-position fixed terminal block (1 analogue input) Three-position	Encoding	Factory programmed ID		
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Mounting Ceiling flush mount Construction White polycarbonate plastic Dimensions 17cm x 4 cm (6.6 inches x 1.6 inches) Weight 200grams/7.054 ounces approximate Tamper Protection Open 'State' spring-loaded switch button Female RP SMA connector (RF antenna) Female RJ-45 (8P8C) connector (Ethernet) Four-position removable terminal block (RS-485 Bus & 24Vdc) Two-position fixed terminal block (R sanday input) Three-position fixed terminal block (2 digital outputs) Operating Environment Temp: -10°C to 70°C (14°F to 159°F); Humidity: 20% to 80% non-condensing Storage Temperature -40° to 70°C (-40°to 159°F) Remote Configuration and Supervision EIRIS 4.6.3 (or higher) software FCC & CE Compliance FCC PART 15, Sub-part B, Class B (Grant # pending) EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22	Power Requirements	16-28Vdc, 80mA at 24Vdc=2W		
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Tamper Protection Open 'State' spring-loaded switch button Female RP SMA connector (RF antenna) Female RJ-45 (8P8C) connector (Ethernet) Four-position removable terminal block (RS-485 Bus & 24Vdc) Two-position fixed terminal block (1 analogue input) Three-position fixed terminal block (2 digital outputs) Operating Environment Temp: -10°C to 70°C (14°F to 159°F); Humidity: 20% to 80% non-condensing Storage Temperature -40° to 70°C (-40°to 159°F) Remote Configuration and Supervision FCC & CE Compliance FCC PART 15, Sub-part B, Class B (Grant # pending) EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22	Dimensions	17cm x 4 cm (6.6 inches x 1.6 inches)		
Female RP SMA connector (RF antenna) Female RJ-45 (8P8C) connector (Ethernet) Four-position removable terminal block (RS-485 Bus & 24Vdc) Two-position fixed terminal block (1 analogue input) Three-position fixed terminal block (2 digital outputs) Operating Environment Temp: -10°C to 70°C (14°F to 159°F); Humidity: 20% to 80% non-condensing Storage Temperature -40° to 70°C (-40°to 159°F) Remote Configuration and Supervision FCC & CE Compliance FCC PART 15, Sub-part B, Class B (Grant # pending) EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22	Weight	200grams/7.054 ounces approximate		
Female RJ-45 (8P8C) connector (Ethernet) Four-position removable terminal block (RS-485 Bus & 24Vdc) Two-position fixed terminal block (1 analogue input) Three-position fixed terminal block (2 digital outputs) Operating Environment Temp: -10°C to 70°C (14°F to 159°F); Humidity: 20% to 80% non-condensing -40° to 70°C (-40°to 159°F) Remote Configuration and Supervision FCC & CE Compliance FCC PART 15, Sub-part B, Class B (Grant # pending) EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22	Tamper Protection	Open 'State' spring-loaded switch button		
Storage Temperature -40° to 70°C (-40°to 159°F) Remote Configuration and Supervision EIRIS 4.6.3 (or higher) software FCC & CE Compliance FCC PART 15, Sub-part B, Class B (Grant # pending) EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22	Device Interfaces	Female RJ-45 (8P8C) connector (Ethernet) Four-position removable terminal block (RS-485 Bus & 24Vdc) Two-position fixed terminal block (1 analogue input)		
Remote Configuration and Supervision FCC & CE Compliance EIRIS 4.6.3 (or higher) software FCC PART 15, Sub-part B, Class B (Grant # pending) EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22	Operating Environment	Temp: -10°C to 70°C (14°F to 159°F); Humidity: 20% to 80% non-condensing		
and Supervision FCC & CE Compliance FCC PART 15, Sub-part B, Class B (Grant # pending) EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22	Storage Temperature	-40° to 70°C (-40°to 159°F)		
EN60950-1, ICES-003, CAN/CSA-CEI/ICE CISPR 22		EIRIS 4.6.3 (or higher) software		
Warranty 1 year limited warranty	FCC & CE Compliance	, , , , , , , , , , , , , , , , , , , ,		
	Warranty	1 year limited warranty		

^{*}Note 1: Read distances may be affected by environmental conditions and site characteristics.

All specifications are subject to change without notice.

System Topology



Ordering Information

Ordering Information		
Part Number	Description	
5-RFB00433	RF Reader Master, Ethernet, Ceiling, 433MHz	

Accessories

Accessor les		
Part Number	Description	
5-500100	Power-Over-Ethernet Splitter, 24Vdc/0.5A	
5-ERS02601	Power Supply, 24Vdc/2.A	
5-RDT09100	Mounting Bracket (5 units)	

Office Locations

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About Visonic Technologies

Visonic Technologies is a global leader in unified active RFID/RTLS solutions. The company caters to the needs of industries and institutions where the real-time identification and location tracking of people and/or mobile assets is mission critical to their internal security and safety operations.



