

Gen-2 IR Location Reader

Description

The Elpas Gen-2 IR Location Reader is a low-cost, supervised; fixed infrared locating device. The reader is designed to detect, process and relay IR room-level location data in real-time from Elpas active RFID tags to a host computer.

Architecturally attractive and unobtrusive, the readers are easily surface mounted on solid walls and ceilings or flush mounted into dropped (false) ceilings. Readers can be easily integrated anywhere onto wired or wireless WAN/LAN networks (using an Elpas RF Ethernet Reader as a RS-485 BUS master) to enable indoor, facility-wide room-level monitoring, tracking and locating of high-value mobile and fixed assets or personnel to room level location accuracy.

The Gen-2 IR Location Reader supports large tag populations that can be detected and processed in real-time at read-distances up to 15m/50ft (360° coverage area) in office environments. Additionally, its operating read-range is fully software configurable for customized applications. Tag messages are validated using advanced CRC error-checking and filtering algorithms to prevent invalid or redundant data. Additionally, on-board I/O ports enable the local monitoring of alarm sensors and control of switched devices such as alarm annunciators, door locks, HVAC and area lighting.

The Gen-2 IR Reader supports RS-485 bus connectivity for linking to an Elpas RF Ethernet Reader or other Gen-2 IR Readers. The reader also employs XML messaging technology for easy integration with third-party monitoring and control systems.



Elpas Gen-2 IR Location Reader
Shown with Flush Mount Ring

Product Features

- Real-time tag location monitoring
- Architecturally unobtrusive, low cost design
- Unique location indication using internal ID code
- High data throughput; supports large tag populations
- IF range up to 15m/50ft (360° coverage area)
- Remote configuration and range tuning over the LAN
- Digital I/O ports for monitoring & control of external devices
- RS-485 interface to other Elpas-2 IR and RF readers
- XML messaging technology for third-party integration

Elpas Security Applications & Uses

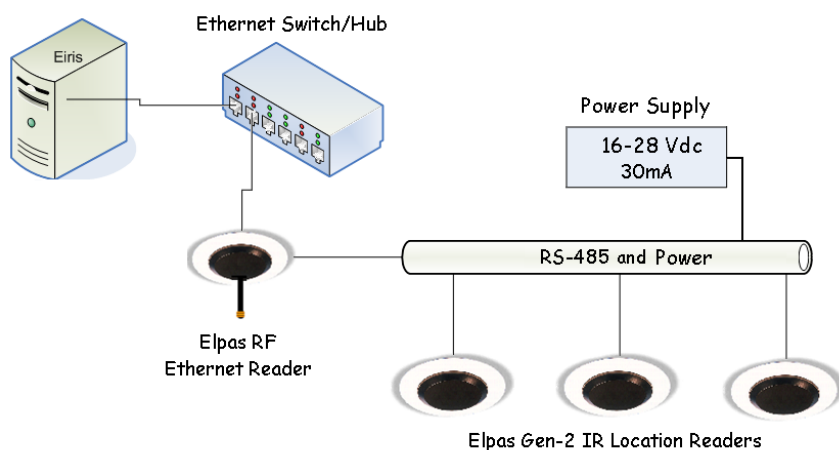
- Patient identification
- Assisted living facilities
- Infant protection (Elpas BabyMatch™)
- Nurse/Patient call
- Wandering patient supervision
- Entrance/Exit based alarming
- Hands free access control
- Mobile asset management & loss prevention
- Personnel and visitor safety

Elpas Gen-2 IR Location Reader – Data Sheet

Operational Specifications	
Operating Frequency	455KHz
*Read-Range	In door Open Space: 20m/65ft radius Spacing Along Corridor: 15m/50ft radius Max. Room Size: 50m ² /165ft ²
Tag Density	Up to 50 tag messages/second
Message Length	4-31 byte messages (encapsulated for messages > 4 bytes)
Buzzer Indicator	Upon Power-up: Beeps once Device Malfunction: Beeps continuously
Red LED Indicator	Corrupted firmware: Lites continuously Unregistered in EIRIS: Toggles on/off every second Tag/Badge Detection: Flashes once per message
Service Pin	Generates service message
Encoding	Factory programmed ID
RS-485 BUS	230Kbit/sec
Digital I/Os	1 dry contact input, 2 open collector digital outputs (up to 100mA)
Power Requirements	16-28 Vdc/30mA
General Specifications	
Mounting	Ceiling/Wall (flush or surface-mount)
Construction	Black polycarbonate plastic
Dimensions	17cm x 4 cm (6.6 inches x 1.6 inches)
Weight	200grams / 7.0 ounces approximate
Tamper Protection	Open 'State' spring loaded switch button
Device Interfaces	Four-position removable terminal block (RS-485 BUS & 16-28 Vdc) Two-position fixed terminal block (analogue input) Four-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 (or higher) software
FCC & CE Compliance	FCC and CE approvals pending
Warranty	1 year limited warranty

*Actual read distances may be affected by environmental conditions and site characteristics.

System Topology



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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.



Manufactured In Israel

Ordering Information

Part Number	Description
5-RRB00880	Gen-2 IR Location Reader
5-RDT09001	Dummy Reader

Accessories

Part Number	Description
5-500100	Power-Over-Ethernet Splitter, 24Vdc/0.5A
5-RDT09113	Surface Mount Plastic Ring (5 units)
5-RDT09100	Mounting Bracket (5 units)

All specifications are subject to change without notice.