

## READ 868 MHz active IRE 350-i-Port-Ethernet Reader



### Product description:

- Readers from the IRE 350-i-Port-Ethernet series are intelligent long range readers and provides highly accurate, real-time data collection with minimal human intervention in wireless applications such as: identification, tracking & tracing and localization of assets or personnel.
- Using advanced UHF radio frequency technology, the IRE 350-i-Port-Ethernet Reader communicates at distances of up to 500 meters. The unique, highly sophisticated anti-collision algorithm guarantees identification of thousands of Tags located concurrently within the interrogator's read zone. The high rate of transmission allows communication even with rapidly-moving Tags.

### Features & Benefits:

- Communication with response tags → The IRE 350-i-Port-Ethernet Reader offers the ability to adjust the read/write range with the active UHF Tags E4000.000275+276 from a range of <1m up to 250m.
- Collecting data from beacon tags → The IRE 350-i-Port-Ethernet Reader can detect the broadcast messages of these tags from a distance of up to 500m.
- 2000-Tags simultaneous identification → Large numbers of Tags can be identified virtually simultaneously.
- Data interface master/host → i-BUS (RS422), Ethernet or WLAN
- Data interface slave → i-BUS (RS422); permits daisy-chaining of several readers to a host interface; also provides for only one connection for power supply and data transmission
- Communication on demand only → Eliminates RF flooding through software-controlled read/write operations
- Industrial housing → Durable in demanding environments
- European and North American versions

<u>Technical Specification:</u>	
<u>Performance</u>	
Response read/write range:	Up to 250m @ free air *
Broadcast read range:	Up to 500m @ free air *
Simultaneous identification:	Up to 2000 Tags
<u>Communication:</u>	
Frequency:	868 MHz (EU), 919/920/921 MHz (NA)
Certification:	EN 300 220 (EU, pending), FCC part15 (US), Industry Canada
Response communication rate:	19.200 – 115.200 kbits/s
Number of antennas:	1
Antenna connection:	SMA
Transmit power:	≤ 10 mW/+10 dBm, depending on national regulations, software adjustable
Transmission safeguard:	16 Bit CRC
Sensitivity:	-100 dBm, depending on data rate
Drivers:	Drivers for different operating systems (Windows CE/Win9x/NT/2000/XP & Linux)
<u>Interfaces</u>	
Data interface mater/host:	i-BUS (RS422), Ethernet or WLAN (IEEE 802.11b)
Data interface slave:	i-BUS (RS422), for cascading additional i-Port readers
Status display:	4 LEDs (UHF, RUN, BUS, ERR)
<u>WLAN Security</u>	
WEP:	64/128-bit encryption (RC4)
WPA/WPA2/802.11i:	<ul style="list-style-type: none"> <li>- 128-bit TKIP/CCMP (AES) encryption</li> <li>- Enterprise mode (802.1X): LEAP (WEP only), PEAP, TTLS, TLS; EAP-FAST, GTC, MD5, OTP, PAP, CHAP, MSCHAP, MSCHAPv2, TTLS-MSCHAPv2</li> <li>- Pre-shared key mode (PSK/Personal)</li> </ul>
<u>Electrical</u>	
Power source:	10 - 30 VDC
Input power:	< 1 W with RS422, < 2 W with Ethernet/WLAN
Standards / Safety:	CE and EN 300 220
<u>Environmental</u>	
Operating temperature:	-30°C to +70°C
Storage temperature:	-40°C to +80°C
Humidity:	90% non-condensing
<u>Physical</u>	
Dimensions:	97 x 67 x 97 mm; 153 x 67 x 97 mm incl. cover
Case material:	Plastic
Weight:	150 g
Package rating:	IP 40, IP64 with plastic cover
<u>Order No.:</u>	
E4002.000122	READ 868 MHz active IRE 350-i-Port-Ethernet Reader
E2127.010040	Power Supply Plug

\* The communication range depends on the antenna type, the antenna cable runs and the environmental conditions.