



Passive RFID portals

LS4110, LS4120, LS4130

The LS4110, LS4120 and LS4130 are intelligent, passive ISO 18000-6C EPC Gen2 RFID stand-alone portals designed to cover strategic congestion points such as entrances and exit gates, conveyors, sorting machines, etc. The portals read passive EPC Gen2 tags. When a tag passes the portal, it reads the unique tag ID and adds both the exact time of reading and the portal ID number. This data can be subsequently transmitted to a server through a LAN or GSM/3G modem.

For complex applications the portals are prepared for connection of two additional external passive EPC Gen2 patch antennas, which may be required to achieve satisfactory read rates.

The portals are designed for fast and easy installation. The portals are I/O enabled for connection of e.g. horn, lamp, sensor etc. for e.g. load control and directionality. The portals also include a number of built-in watchdog functions for diagnostic monitoring of the units that ensures optimum operation availability and up time.

In addition, the LS4120 and LS4130 have a single board computer to support embedded applications for enabling on-site logistic control, and alerts.

BENEFITS

- Objective collection of track & trace information
- Enables process transparency
- Enables quality improvements
- Objective SLA documentation

FEATURES

- Based on open standards
- Easy to install
- Read multiple tags
- Industrial design
- Long MTBF
- Enables alarm activation
- Watchdog installed



Technical specifications

OVERALL

Tag compatibility	ISO 18000-6C, EPC Class1 Gen2 compliant tags
Data communication	Ethernet and for LS4130: GSM, GPRS, HSDPA, Edge
Single board computer (4120 and 4130 only)	SBC84620 500 MHz
GSM modem (4130 only)	Quad-band GSM 850/900/1800/1900Mhz and GPRS Multi Slot Class 10
Motion sensor	Yes, with on/off switch
Frequency	902MHz~928MHz(FCC) 920MHz~925MHz(CHN) 860MHz-868MHz(CE)
Power supply	24V DC
Power consumption	2 Amps
Relative humidity	95% non condensing
Operation temperature	-5°F - +130°F
Storage temperature	-30°F - +160°F
Dimensions	57" x 20" x 2"
Weight	20 lb

PASSIVE EPC GEN2 READER

Protocol	ISO 18000-6C, EPC Class1 Gen2
Tag data rates	32 kbps
User I/O	4 5-V inputs / 4 12-V outputs

ANTENNAS

Number of antennas	Up to 4, electronically switched
Antenna beamwidth	65 degrees
Polarization	Circular right-hand or circular left-hand

