



Passive and Active RFID Portal

LS4200, LS4202, LS4210, LS4220, LS4230

The LS4200 series Quick Mount Portals are integrated, active and ISO 18000-6C EPC Gen2 compliant passive RFID stand-alone portals designed to cover strategic congestion points such as entrances, exit gates, conveyors, sorting machines, etc. The portals read active tags and passive EPC Gen2 tags. When active or passive tags pass a portal, their unique tag IDs are read. This information and the exact time of reading and the portal ID number, indicating portal location / position, are subsequently transmitted to a server through a LAN or GSM/3G connection.

For complex applications the portals will accommodate the connection of two additional external passive EPC Gen2 compliant patch antennas, which may be required to achieve satisfactory reading rates. The portals are designed for quick mount installation. The portals are I/O enabled for direct connection of e.g. horn, lamp, sensor etc. for e.g. load control or tag detection. They also have a number of built-in watchdog functions for diagnostic monitoring of the unit including automatic reset functions enabling optimum operation availability and uptime.

In addition, the LS4220 and LS4230 portals have a single board computer supporting embedded applications enabling control of on-site logistics execution such as load control on trucks.

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
- Compatible with existing active Lyngsoe technology

Technical specifications

GENERAL

Tag compatibility All generations of active LS tags and passive EPC C1G2/ISO 18000-6C tags

Single board computer SBC84620 500 MHz

Data communication Ethernet and for LS4230: GSM, GPRS, HSDPA, Edge

GSM modem Quad-band GSM 850/900/1800/1900Mhz and GPRS Multi Slot Class 10

Motion sensor Yes, with on/off switch

Excitation range Typically 9ft 10in x 9ft 10in when installed at 8 ft 2in height

Power supply 24V DC
Power consumption max 2 Amps

User I/O Solid state relay 100mA/0-24V

Relative humidity 95% non condensing

Operation temperature -4F - +131F Storage temperature -31F to +158F

Conformity FCC Part 15, I-ETS 300-220, I-ETS 300-330, RSS210

Dimensions 57" x 20" x 2"

Weight 24lb 4.01oz- 28lb 10.56oz

PASSIVE EPC GEN2 READER

Frequency 902MHz~928MHz(FCC) 920MHz~925MHz(CHN) 860MHz-868MHz(CE)

Protocol ISO 18000-6C EPC Gen2

PASSIVE ANTENNAS

Number of antennas Up to 4, electronically switched

Antenna beamwidth 65 degrees

Polarization Circular right-hand or circular left-hand

LS RFID EXCITER

Power consumption 300 mA at 24 VDC

Carrier frequency 125 KHz

Modulation ASK (On/Off keying)

LS RFID READER

Tag Technology RF - active

Protocol ISO 18000-1 standard

Receiver sensitivity > -105 dBm at 12 db SINAD for 1 KHz modulation and 15 KHz total

Tag transmission frequency 433.92 MHz (ISM worldwide approved frequency)

Data read rate (tag to reader) 38.4 Kbps
Data memory capacity 32 KB





