



LYNGSOE RTLS PORTAL™

REAL-TIME VISIBILITY IN SUPPLY CHAIN AND LOGISTICS NETWORKS USING RFID

MONITORING PACKAGES AND MAIL TRACING

The Lyngsoe RTLS Portal™ series are intelligent, certified, and stand-alone RFID devices designed to cover strategic choke points such as building entrances and exit gates or consignment stations in your supply chain.

The Lyngsoe RTLS Portals are designed to be installed anywhere in your flow, where automated tracking events provide value for your operations and customers.

When a tag (RFID or BLE) passes a Lyngsoe RTLS Portal, it reads and registers the unique tag ID along with the exact time of reading and its own ID number, facilitating the capture of exactly when an object passes a specific location. This information is subsequently transmitted to Lyngsoe LIVE Logistics™ - for further enrichment and distribution to relevant IT systems.

MULTIPLE CONNECTIVITY OPTIONS AND EASY INSTALLATION

The portals support Wi-Fi, LAN, and LTE for maximum flexibility whether the choke point has

cables installed, Wi-Fi or no on-site connectivity infrastructure and thus dependent on LTE for sending/receiving data.

The Plug N' Play installation is supported by a user-friendly app; providing a complete package for installation and provisioning to be done by the users themselves.

FUTURE-PROOF TECHNOLOGIES

The RTLS Portal is prepared for future upgrades, due to extra capacity in both hardware and software, and software can be remotely uploaded. Future technologies can be connected via the USB interface. Total cost of ownership is reduced to a minimum, as installation and operational costs are kept low.

BENEFITS

- Multiple connectivity options
- Frictionless data and event production (No manual labour costs)
- Detailed real-time track & trace information
- Easy Plug N' Play installation
- Optimal TCO, low installation and operation costs



SPECIFICATIONS

LYNGSOE RTLS PORTAL™

Product number LS4510 (Passive), LS4530 (Passive + Exciter), LS4550 (Passive + Exciter + Active)

LS4510 BASIC FEATURES

Dimensions	1450 mm x 510 mm x 50 mm / 57" x 20" x 2" (L x W x H)
Weight	11 kg / 24 lbs
Operation temperature	0°C to +35°C / 32°F to 95°F ambient (measured outside the enclosure)
Storage temperature	-35°C to +70°C / -31°F - +158°F (+35°C)
Humidity	Max. 95% non-condensing at +40°C / 104°F
Power supply	100-240 VAC, 50-60 Hz
Power consumption	35W
Remote power reset	Yes. Controlled through Lyngsoe Device Management System
LEDS	Power, connectivity and device status
Motion sensor	Yes
Conformity	FCC Part 15, ETSI 300 220, ETSI 300 330, RSS210
CPU	Linux based SBC
Memory	Persistent storage of data when network connectivity is lost
Interfaces	10/100/1000 Ethernet (Optional) WiFi 802.11 a/b/g/n BLE (Bluetooth Low Energy) (optional)
External connection	WiFi Ethernet (optional) Mobile connection via 4G/WiFi access point (optional)

PASSIVE RFID READER

Tag compatibility	ISO 18000-6C, EPC Class1 Gen2 compliant tags
Number of antennas	2
Frequency	902MHz~928MHz(FCC) 920MHz~925MHz(CHN), 865MHz-868MHz(ETSI)

ANTENNAS

Model	UHF antenna
Frequency	902MHz~928MHz(FCC) 920MHz~925MHz(CHN) 915-917MHz, 860MHz-868MHz, 925MHz-928MHz (ETSI)
Antenna beam width	65 degrees

LS4530 BASIC FEATURES + LS RFID EXCITER

Excitation field size	2.8x2.8 meters / 9.2x9.2 ft when installed at 2.8 meters / 9.2 ft height
Carrier frequency	125 KHz

LS4550 BASIC FEATURES + LS RFID EXCITER + ACTIVE RFID READER

Tag technology	RF - active
Protocol	UPU S56 standard
Tag transmission frequency	433.92 MHz (ISM worldwide approved frequency)



www.lyngsoesystems.com
logistics@lyngsoesystems.com

