

# RX2 Forklift RFID Reader



## VEHICLE-MOUNT COMPUTERS

*Easy installation requires no permanent forklift modifications or forklift downtime.*

*Fully integrated package with support for reader and device APIs, an embedded FTP server, TCP/IP networking, and a sample RFID tag logging application.*

*Easy software integration (APIs, Client Server, Log File, FTP).*



*Supports EPC Class 0, Class 1, and C1G2 (Gen2) tags.*

*Rugged IP66 rating. Vibration, shock and impact resistant design means minimal maintenance requirements.*

*Forklift or battery powered.*

*Windows® CE operating system and real-time communication via 802.11b radio.*

## LXE is RUGGED RELIABLE MOBILE COMPUTERS.

### **Easy to install, rugged forklift RFID reader for various warehouse apps**

The easy-to-install RX2 vehicle-mounted RFID reader is ideal for standard RFID-based forklift pallet move applications such as shipping, receiving, picking and put-aways where EPC RFID-based identification of pallet loads and locations are used. Read EPC Class 0, Class 1 and C1G2 (Gen2) tags with the RX2.

The ultra-rugged RX2, designed to operate on the business end of a lift truck, comes with a simple mounting solution that requires no permanent lift modifications or lift downtime for installation.

### **Powerful and versatile, yet simple**

The Windows CE OS and an 802.11 radio come standard on the RX2. And, with supporting APIs, an embedded FTP server, TCP/IP networking, and a sample RFID Tag logging application, RFID data can be easily integrated into logistics applications, whether batch, real-time, client/server or .NET Compact Framework based solutions. Best of all, the RX2 is practically maintenance free.

*And the RX2 is supported by LXE's award winning support team, winners of the Mobile Star Award™ for best customer service four years in a row.*



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# RX2

## Forklift RFID Reader Technical Specifications



### Processing & Memory

- Intel® XScale® PXA255 400MHz CPU
- 128MB SDRAM
- 128MB Flash

### Software

- Windows® CE .NET 4.2
- Network GrabTime utility for automated date/time restoration on bootup
- FTP server
- RF & diagnostic utilities
- API's for RFID reader, PCMCIA, battery, power management & version control
- SDK

### Additional Software

- Sample RFID Tag Logging Application

### Configuration & Management

- via ActiveSync/USB using Microsoft Active Sync Remote Display utility
- via 802.11 network connection using LXE Software Update Manager
- via RS232 or 802.11 using RX2 Software Configuration Utility (CE .NET 4.2) on LXE MX3X
- SNMP agent supporting MIB-2 and LXE Extensions

### Power Supply & Management

- Power jack for external power and/or internal battery charging
- Power input: Regulated 12VDC (11.2VDC - 16VDC) @ 1A at input jack
- Optional 12VDC, 4.5Ah NiMH internal battery
- Minimum 9-hour battery life with 1 read every two seconds (with typical use)
- Battery charge time (typical): 6 hours
- Power switch for internal battery operation
- Auto-detect external power/battery recharge operation

### Power status indicators

- Bi-Color LED
- Beeper, software selectable to indicate low battery

### Interfaces

- (1) USB client port (D-9)
- (1) RS232 serial port (D-9)

### Radio Card Support - PCMCIA

- 2.4GHz 802.11 radio
- Optimized internal integrated antennae

### Physical

- Enclosure (Reader, CPU & Battery): .078 Black Galvanized Steel, powder coated black
- Integrated mounting bracket
- Antenna radome, housing RFID and 802.11 antennae: White high impact UHMW-PE
- Overall Size: 11.25 in. wide x 16.5 in. high x 3.125 in. deep
- Weight: 19 lb. (approx.)

### Environmental

- Operating temperature range -4°F to 122°F (-20°C to 50°C)
- Storage temperature range -22°F to 158°F (-30°C to 70°C)
- Humidity (operating) 5% to 90% RH non-condensing at 104°F (40°C)
- Dust & water protection enclosure rating IEC 60529 compliant to IP66
- Vibration testing meets MIL STD 810F

### Approvals

- Emissions (EMI)
- FCC Part 15 Subpart B, Class A
- Industry Canada ICES-003 Class A
- Radios separately approved to FCC

### Part 15 Subpart C

- Industry Canada RSS 102, RSS 139 and/or 210

### Integrated EPC Compliant Tag Reader

- Freq. range 902-928 MHz ISM band
- EPC compliance: Class 0 & Class 1, C1G2 (Gen2)
- Output power 1000 milliwatts
- Antennae: Fully integrated, Right Hand Circularly Polarized patch antenna, 5dBi linear gain
- Firmware upgradeable to support future standards

### Accessories

- AC battery charger
- Charger extension cable with quick disconnect
- DC power cable
- USB interface cable
- RS232 interface cable
- DC Power converter/regulator (24-72VDC in, 12VDC out)

