



125 Technology Parkway
Norcross, Georgia, US 30092

April 17, 2007

Test Report

LXE Model: RX2

FCC ID: KDZLXERFID3

Mobile Equipment Certification

Operational Description

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Product Overview

The RX2 product will be LXE's first forklift mounted product capable of reading RFID Tags. It will provide the following features:

- Integration of SIRIT RFID reader module supporting
 - Class 0 Tag
 - Class 1 Tag
 - Class 1 Gen2 Tag
- Antenna radome encloses both the RFID and WiFi antenna
- Forklift rugged
- Ease of forklift installation to the forklift carriage

Anticipated use of the RX2 is to be mounted on a forklift truck. There it will collect tag information, which will be relayed by the WIFI network to server. After tag data has been collected at the server, a periodic analysis of the data will be done by the customer to determine product location thereby improve store efficiency. The RX2 will be provided with an internal battery when it is not possible to provide power from the vehicle power. Alternatively, the RX2 can use 12 VDC if it is possible to provide power from the vehicle power (via a DC to DC converter.)

Transmitters

- The RFID reader operates at 902 – 928 MHz
- The 802.11b/g radio operates at 2412 – 2462 MHz

Normal use of the RX2 is illustrated as follows:

Figure 1: RX2 on forklift carriage with internal battery and charger coupler cable. Note: Coupler bracket is customer provided.

For forklifts equipped with load rests and without load rests:

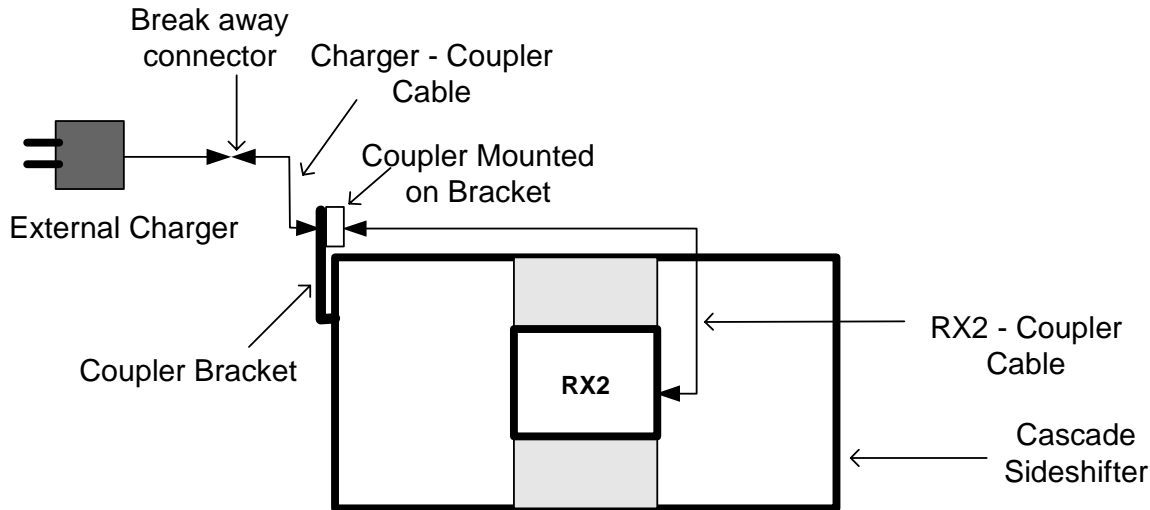


Figure 2: RX2 on forklift carriage using DC powering over festoon for forklifts equipped both with load rests and without load rests. Connection from the customer terminal block to the power from the main forklift battery (over the festoon or otherwise) is customer supplied equipment

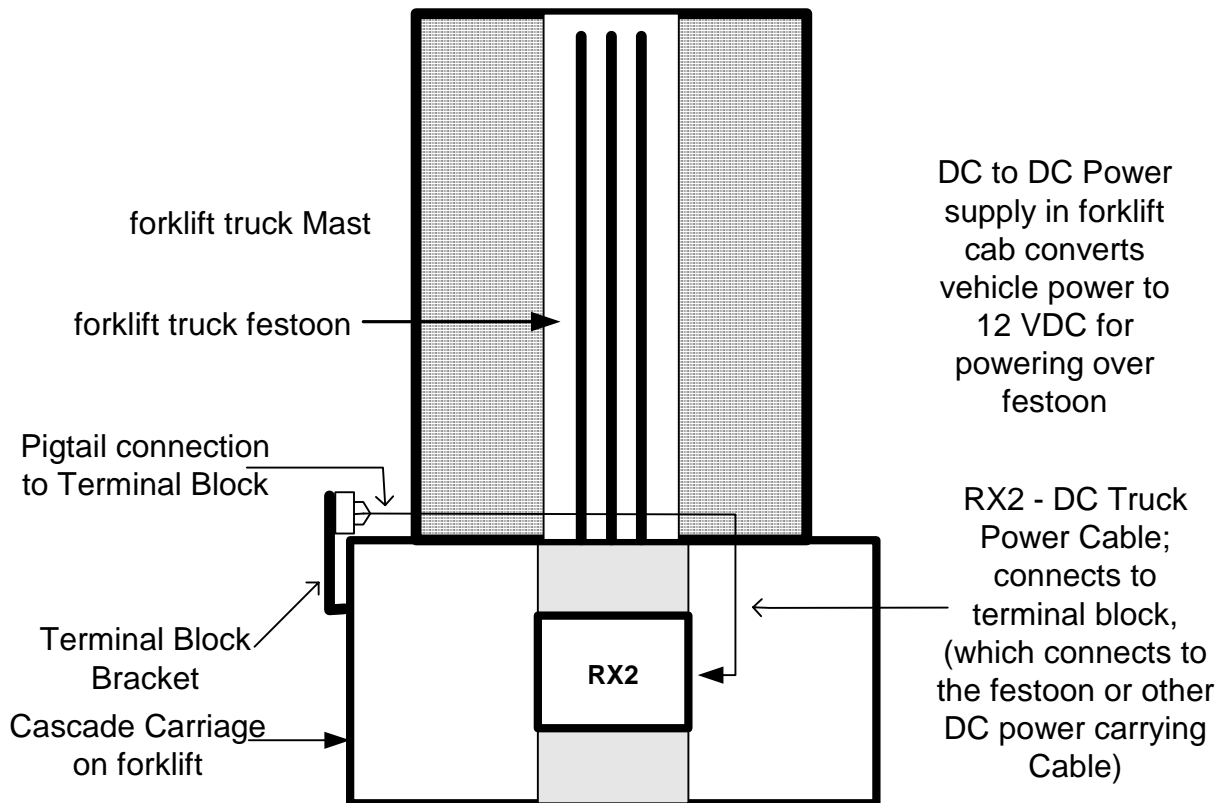


Figure 3: External Battery to Charger with Adapter Cable

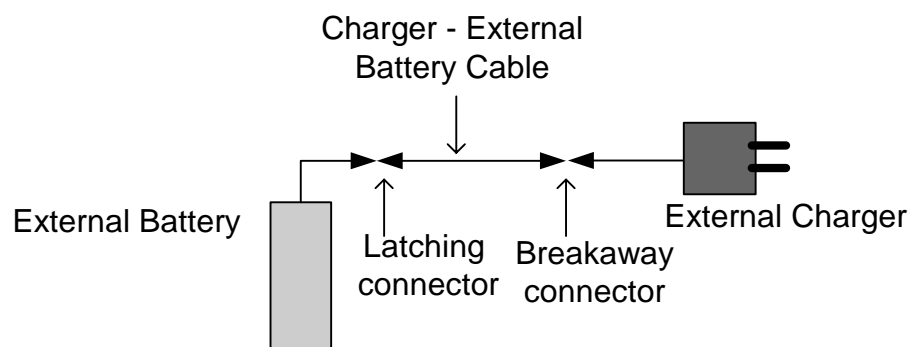


Figure 4. Anticipated Models for cables and Charger

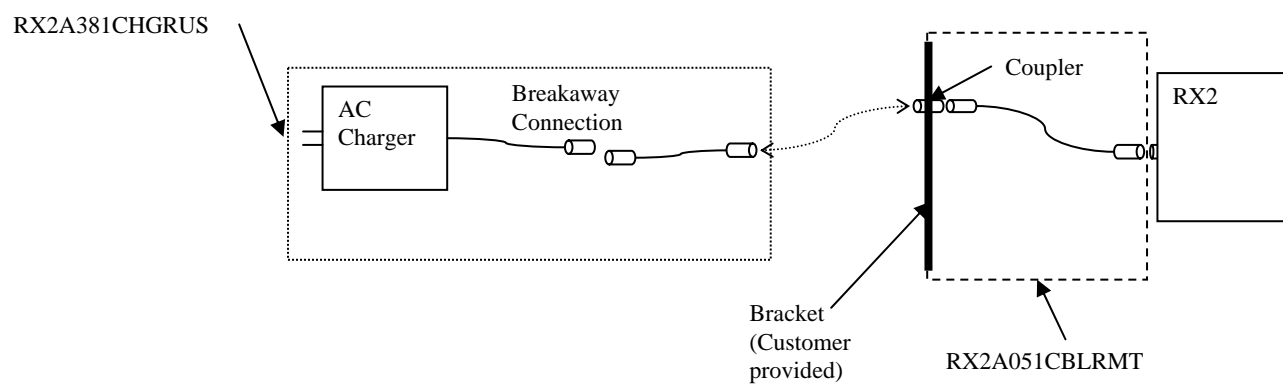
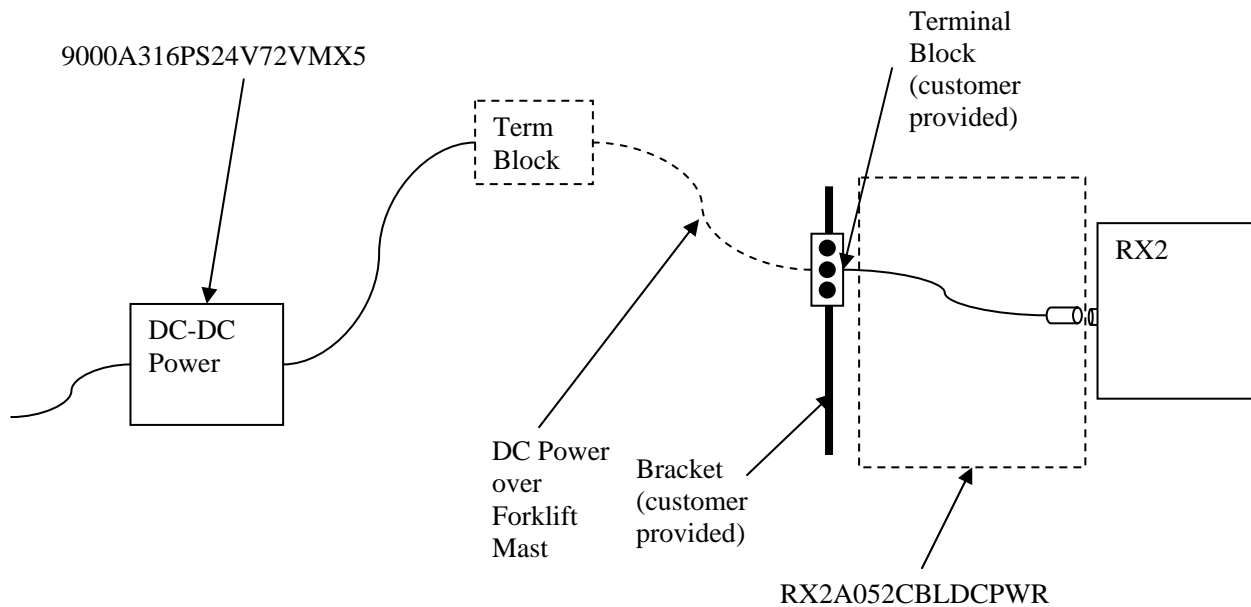


Figure 5: Anticipated Models for DC Powering RX2



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