

# OCU-III for Rail

Beltpack®



## DURABILITY PLUS LIGHTWEIGHT CONVENIENCE

- HIGHLIGHTS**
- Bluetooth® Integration
  - Lighter Weight
  - High Impact-resistant Nylon Enclosure

- FEATURES**
- Internal Archive Record
  - Embedded GNSS Receiver
  - Switch usage statistics recorded in internal Archive Record
  - Operating temperature: -30° C /+50° C (-22° F / +122° F)

- MODELS**
- |   |  |
|---|--|
| Flat Yard   | Hump Yard  |
| <ul style="list-style-type: none"><li>• 450-470 MHz</li><li>• 806 - 869 MHz</li></ul> | <ul style="list-style-type: none"><li>• 450-470MHz</li><li>• 806 - 869 MHz</li></ul> |

## SPECIFICATIONS COMPARISON

ATTRIBUTE	OCU	OCU-III
<b>Size (inches)</b>	3.7W x 10.4L x 4.5H	3.7W x 10.6L x 4.9H
<b>Weight (with battery)</b>	3lbs 8oz	2lb 15oz
<b>Housing Material</b>	Magnesium	PA12
<b>Display</b>	LED 4 Digits	Graphics LCD 32x122 pixels, 3 lines
<b>Antenna</b>	External - Monopole	Internal Helical/Dipole
<b>Output Power</b>	1 Watt	2 Watts
<b>Battery Technology</b>	NiMH	Rechargeable Li-Ion
<b>Bluetooth®</b>	Not available	Diagnostic Support

### OCU-III OPERATIONAL ENHANCEMENTS FOR BELTPACK SYSTEMS

#### OLED Display

With three lines and sixteen characters per line, the OCU-III display provides visibility that allows more efficient operations. The first two lines display messages sent by the MCU (Machine Control Unit) with no scrolling required. The third line displays messages local to the OCU-III, such as Operator Requested Status.

#### Bluetooth® Integration

- Improve the efficiency of service operations and decrease downtime of control units through the Bluetooth interface. The OCU-III performance data can be downloaded from the OCU-III without additional cables or opening the unit to obtain critical service data.
- This wireless connection is also used to update firmware and configuration parameters when used by a properly licensed software tool.

#### Infrared Configuration Updates

The OCU-III has the ability to pair with the target locomotive's MCU and uses Infrared to download unique configuration details of the RCL-II. Updating the MCU predefined messages over Infrared decreases the need to manually configure units and will increase the time that units are available for operation in the field.

#### Embedded GNSS Receiver

An embedded GNSS (Global Navigation Satellite System) enables the OCU location to be logged in the internal archive record for later review. For North American users, this GNSS receiver tracks the GPS constellation.

#### Embedded Accelerometer

- An embedded accelerometer monitors OCU tilt, motion and other operations to improve operator safety.
- The accelerometer is self-checked at power up and continually during operation.

#### Battery Charger

The Laird single and six-unit chargers are designed to charge the rechargeable Li-Ion battery. The charger rapid-charges the OCU-III battery and monitors the battery for safe charging.

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