

# IONX Edge™ Asset Monitoring System

Series 1 CMU-121/122, -151/152



*Give your railcars on board intelligence with the IONX Edge™ asset monitoring system, the total solution to reliably track and monitor asset location and status. Utilizing satellite, cellular or dual-mode communications, the IONX Edge system maximizes asset visibility with the best coverage available to help meet fleet productivity, security and regulatory compliance needs.*

## Features:

- Asset location via two-way satellite communication
- Advisories sent based on pre-defined conditions
- Web-based tools or .xml data feeds for monitoring system and changing parameters
- Antenna options
- Durable construction with robust mounting
- Sensor connections
- Geofence functionality
- Long-life lithium batteries
- Optional dual-mode (satellite/cellular) functionality

## Reporting:

- Multiple message reporting options
- Listening intervals to poll unit as frequently as every 15 minutes
- Alert on sensor threshold or state change + geofence entered/exited
- Latitude and longitude
- Speed
- Temperature of unit



**To learn how the IONX Edge™ asset monitoring system can help improve fleet performance, call 484-653-2619.**

**IONX**  
information from the edge™

484-653-2600 • [ionxlive.com](http://ionxlive.com)

## Physical specifications:

Dimensions:	L 7" x W 14" x H 3 1/2" (17.8 cm x 35.6 cm x 8.9 cm)
Weight:	7.1 lbs (3.2 kg)
Material:	PC/ABS plastic

## Electronic specifications:

Railroad Specification:	AAR S-5702
Batteries:	Lithium (8-year life at default reporting frequency)
Operating Voltage:	9 – 32 V DC
I/O Ports:	4 (digital or analog options)
Data Port:	1 RS-232

## Sensors:

Temperature:	Analog -40 to 300 °F
Open/Close:	Digital
Empty/Loaded:	Digital
Accelerometer:	Analog 19 G, 3-axis

## Environmental specifications:

Operating Temperature:	-40 to +185 °F (-40 to +85 °C)
Altitude:	-200 – 12000 ft (-60 m to 3.6 km)
Humidity:	5 – 95%, non-condensing
Shock:	10 G peak, 11 ms pulse
Vibration:	2.5 G peak, 5 mm p-p
Salt Fog:	MIL-STD-810E Test Method 509.3
Waterproof:	MIL-STD-810E Test Method 506.3
Sand and Dust:	MIL-STD-810E Test Method 510.3



## About IONX LLC

Headquartered in West Chester, Pa., IONX LLC is a developer of ultra-low power telematics solutions for railcars, providing GPS tracking, asset status and condition monitoring. The IONX Edge™ asset monitoring system uses both a satellite and a cellular network for reliable global communications services. IONX LLC is a business unit of Amsted Rail, a division of Amsted Industries Inc.

