

Comparison of AURA CAS to Helix CAS

AURA CAS	Helix CAS
Collision Avoidance functions are designed to safeguard MOW equipment / hi rail vehicles and their operators by providing advanced warning of violations in spacing regulations. The MU offers a speed-based detection system that caters to the specific operating rules of each customer.	01. Collision Avoidance - Ultra Wideband UWB sensors deliver continuous positioning data relative to nearby MoW vehicles and personnel with in-cab alerts for operators.
 User Interface (UIM) Features a 2x16 alpha-numeric display for messages and programming, numeric distance displays, indicator lights for alarm conditions, and tactile feedback control panel, all contained within a sealed polymer housing.	Piper Networks Helix™ LCCAS Travel Monday Feb 2, 2023 - 12:00:01 PM FRONT 190 ft REAR 2.13 mi 20 SPEED LIMIT 25 Vehicle Proximity Speed 4500 ft Milepost 1 3.15 mi • Milepost 5 LIDAR UWB LTE VIDEO GPS IMU Brighter Darker Light Theme System Health Form D Information Toggle Alert

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Ultra-Wide Band RF (UWB) Allows the MU to provide accurate and reliable range measurements between equipment without being affected by the same multi-path distortion effects that limit traditional 900 Mhz or 2.4 Ghz systems.	Collision Avoidance - Ultra-Wideband (UWB) radios for collision avoidance between equipped vehicles and localization in complex junctions, yards, and/or areas where GPS is unavailable.
Advanced GPS Technologies - Utilized for speed acquisition for mode-based alerts and alarms. - Universal to all current GPS platforms, including GNSS, GONASS, QZSS, and SBAS technologies.	Limits Compliance - GPS-RTK provides a high precision position & speed calculation for limits compliance and time synchronization.
Transmitter / Sensor Module (TSM) Installed on a roof, this module contains the Ultra-wide Band (UWB) RF and GPS systems. The TSM assembly is constructed of durable, lightweight aluminum with proprietary radome material. A bracket allows for the TSM to be folded for shipment / transportation of machines. Located near the roof-based cellular modem.	