

# Black Max<sup>®</sup>

## Highway Advisory Radio Electronics

### Overview

Black Max is the electronic unit of a Highway Advisory Radio (HAR) system. It supports multiple components, allowing you to add or upgrade your HAR station without replacing the entire system. Black Max was designed specifically for use with HARs, which provide motorists with up-to-the-minute travel and weather information from their standard car radio.

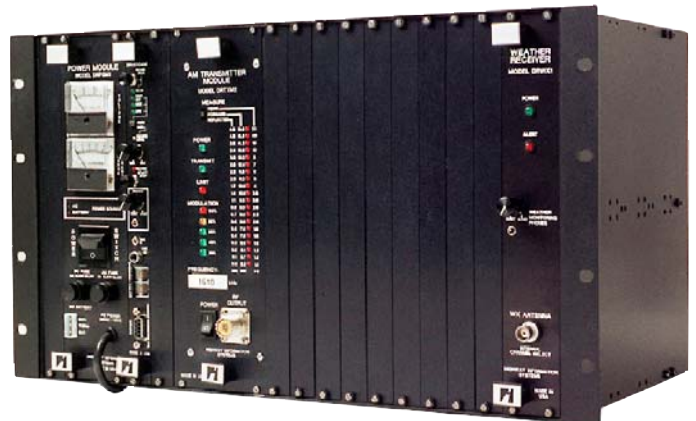
The sleek design of Black Max puts all the controls up front for easy access. The rack-mounted component system lets you build the unit to suit your needs, leaving room to accommodate future modules. Simply remove an old module and install a new one, or add the latest technology - all in just minutes.

### Benefits

- ▶ Flexible structure allows you to build the system with low upfront costs
- ▶ Easily add new modules or upgrade to the latest technology
- ▶ Quality, reliable electronics - little to no maintenance required

### Features

- ▶ Modular design provides easy access
- ▶ Electronics housed in a Eurocard cage (19 inch rack)
- ▶ Optional extender card simplifies troubleshooting
- ▶ Five year warranty
- ▶ Rugged construction to withstand harsh weather conditions
- ▶ Electronics can be used with QTT's HiWay Max, Solar Max and Alert Max stations
- ▶ Health-monitoring when used with QTT's DR2000 Platinum software



## Components



### Power Supply

- ▶ Model DRPSM1
- ▶ Clean, efficient power
- ▶ Protects electronics from power surges
- ▶ Power automatically switches to battery back-up when needed, ensuring service is never lost
- ▶ Meters for troubleshooting

### Synchronizer

- ▶ Model GPS-I
- ▶ Accurate GPS signal provides precise transmitter frequency
- ▶ Allows multiple HAR stations to broadcast the same audio message with seamless coverage
- ▶ Superior sound and quality

### Digital Communications Controller

- ▶ Closed loop control
- ▶ Multiple communication channels to control HAR (land line, cellular, modem, or Ethernet)
- ▶ Continuously monitors system status (power, operating mode, and absence of broadcast)
- ▶ Notifies user when faults are detected



### Transmitter

- ▶ Models DRTXM2; DRTXM3; DRTXM4
- ▶ Broadcasts messages at the maximum legal power allowed by the FCC
- ▶ Enclosure ventilation is not required
- ▶ Clean, trouble-free operation
- ▶ Comprehensive metering indicates performance
- ▶ Minimal distortion and noise



### Recorder/Player

- ▶ Model DR1500
- ▶ Stores messages in digital memory
- ▶ Up to 80 minutes total record time
- ▶ Messages play continuously or at timed intervals
- ▶ Unmatched scheduling capabilities
- ▶ Superb audio quality
- ▶ Broadcast live during emergencies and resume normal programming after the event

### Weather Receiver

- ▶ Model ALERT EAGLE
- ▶ Provides up-to-the-minute information directly from the National Weather Service
- ▶ Uses SAME and EAS codes for programming specific areas of interest
- ▶ Excellent reception
- ▶ High-quality, filtered audio



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