

# Mobile Radio Transmitter (MRT)

WiMAX client and Wi-Fi AP



## OVERVIEW

The MobileView™ MRT combines WiMAX and Wi-Fi radio technologies into one ruggedized, vehicle-mounted device. This unique combination makes our “mobile radio transmitter” perfect for real-time information exchange, surveillance and vehicle tracking.

By integrating WiMAX client and Wi-Fi AP functions in a single package, the MRT provides long-range, high-capacity WiMAX connectivity while simultaneously creating a Wi-Fi hotspot.

The 802.16 WiMAX segment provides a network interface with MobileView base stations installed in depots, stations and along highways. This connectivity offers the option to link the vehicle to a MobileView network while at facilities and while the vehicle is in service.

The 802.11 Wi-Fi AP can be configured to provide Internet connectivity to passengers, network connectivity for employees, and access to vehicle-mounted DVR cameras in emergency situations.

The MRT features a built-in 4-port switch, which allows individual on-board networks such as revenue, passenger count, maintenance, fuel and scheduling to be integrated into a single network. The switch can be configured to segregate these networks, providing 802.1Q security and preventing access by unauthorized users.

The MRT connects to MobileView multi-mode external vehicle-mounted antennas for Wi-Fi and WiMAX, receives main power direct from the vehicle, and can have its status controlled by an I/O feed from the MobileView DVR.

## STANDARD FEATURES

- WiMAX and Wi-Fi in one package
- Mounts easily in vehicles equipped with MobileView Surveillance systems
- Rugged IP-66 rating
- Powered directly from vehicle or outside source
- BPSK, QPSK, 16QAM, 64QAM
- Operates on a wide variety of licensed and license-free frequency bands: 700 MHz, and 1.5, 1.9, 2.3, 2.5-2.9, 3.3-3.8, 4.9, 5.6, 5.8 and 5.9 GHz
- Wi-Fi Access Point or Bridge
- Embedded DHCP Server for Wi-Fi connections
- Small and easy to install

# Mobile Radio Transmitter (MRT)

WiMAX client and Wi-Fi AP

North America  
T 855-286-8889

Asia  
T 852-2907-8108

Australia  
T 61-3-9239-1200

Europe  
T 32-2-725-11-20

Latin America  
T 561-998-6114

## Specifications

### WiMAX Interface

Modulation Modes	BPSK, QPSK, 16-QAM, 64-QAM
WAN & LAN Provisioning	DHCP or Static IP
Standards	IEEE 802.16-2005, IEEE 802.16-2004
Frequency Options	700 MHz, 1.5, 1.9, 2.3, 2.5-2.9, 3.3-3.8, 4.9, 5.6, 5.8 and 5.9 GHz
Max TX Power	26dBm @ 700 MHz, 24 dBm @ 1.5 & 3.x GHz, 20 dBm @ 4.9 & 5.x GHz

### Wi-Fi Interface

Wi-Fi Modes	Access Point or Bridge
WAN & LAN Provisioning	DHCP or Static IP
DHCP Server	Embedded DHCP Server for LAN
Standards	IEEE 802.11b/G
FCC	FCC Part 15, Class A
Security	WEP, WPA TKIP, WPA2 AES
SSID Limit	16
Max TX Power	16dBm

### Wired Interface

Device Type	Transparent Layer; 2 Switched Bridge
Standards	IEEE 802.3/Ethernet & 802.1Q VLAN using Ipv4
Device Type	4-Port Switch
Connector Type	RJ-45, Auto Switching
Data Rate	10/100 MB, Auto Sensing

### Electrical

Input Power to Adapter	9-32 volt DC input
Supply Power to Unit	6 volt DC
Optional Power Config.	External power control for DVR direct connection
Power Consumption	18W max
RoHS Compliant	Yes

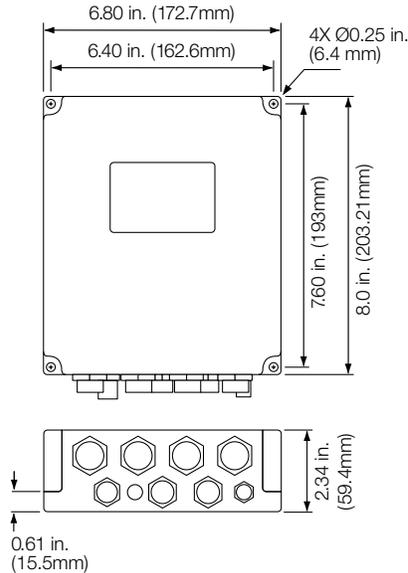
### Mechanical

Construction	Rugged Aluminum Alloy Chassis
Mounting	Vehicle Mounted
Dimensions	2.34 x 6.77 x 8.03 in. (59.5 x 172 x 204 mm)
Weight	3.53 lb. (1.6 kg)

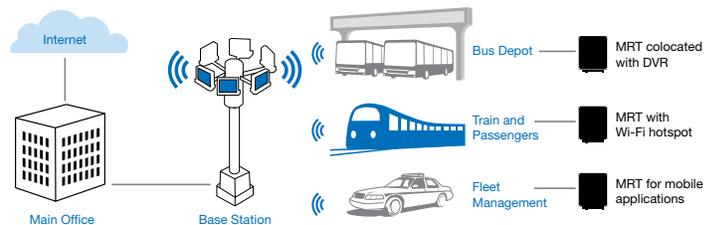
### Environmental

Operating Temperature	-13 ~ 131°F (-25 ~ 55°C)
Storage Temperature	-40 ~ 176°F (-40 ~ 80°C)
Humidity	0 to 95% RH @ 104°F/40°C, non-condensing
EMC	ETS EN 301 489-4, FCC Class A
Shock	30G (Per SAE-J1455, MIL-STD-202G, 213-1, Condition J)
Vibration	02PSD (Per SAE-J1455, MIL-STD-202G, Table 214-I, Condition A)
Safety	IEC60950-1, EN60950-1, TUV
Ingress Protection Rating	IP66

## Dimensional Diagrams



## WiMAX Network



## Ordering Information

MSS-MISC-MRT

MobileView™ MRT



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Specifications subject to change without notice.

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