The IMT Mobile Tactical Receiver is a ruggedized COFDM (DVB-T compliant) diversity vehicle mounted down link receiver. It offers exceptional RF performance and durability with H.264 MPEG-4 and MPEG-2 decoding. The Mobile Tactical Receiver has AES decryption capabilities that make it ideal for law enforcement, public security monitoring and homeland security applications.

The IMT Mobile Tactical Receiver includes integrated antennas and features a compact, lightweight rugged IP rated chassis enabling it to be mounted on vehicles in any weather conditions. The receiver accepts IP Streaming of the MPEG Transport Stream to the computer application decoder and is powered via a single cable. All of these features provide an unequaled value in a high quality COFDM down link reception.

A windows-based software application decoder (IMT Soft Decoder) is included with each Mobile Tactical Receiver. With a simple click of a button the user can decode video and audio from the down link transmitter. The Soft Decoder also features channel control, receiver statistics and recorder functionality.

The Mobile Tactical Receiver is designed with the user in mind. The unit requires minimal setup to operate. For advanced functions such as changing frequency plans, AES decryption keys, or unit naming, an easy to use administration software package is supplied.

The administration software package also allows users to configure and store up to 16 custom preset configurations. The presets can store as little or as much information as the administrator wishes. Access control ensures that users will not inadvertently corrupt mission critical settings.
**RF Performance:**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Frequency (GHz)</th>
<th>DC Power (W)</th>
<th>Antenna Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>47 MTRx</td>
<td>4.400 - 5.000</td>
<td>6W</td>
<td>TBD</td>
</tr>
<tr>
<td>64 MTRx</td>
<td>6.425 - 6.525</td>
<td>6W</td>
<td>4.0 dBi Omni</td>
</tr>
</tbody>
</table>

Tuning step size: 250 KHz step size standard others available upon request.
Frequency stability: ±10ppm

**De-Modulation Modes:**
Modes are auto detected within modulation format

**Modulation**
- Modulation Formats: COFDM (DVB-T)
- Carriers: 2K
- Constellation: QPSK, 16QAM, 64 QAM
- Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8
- Guard Interval: 1/32, 1/16, 1/8, 1/4
- Bandwidth: 6 MHz, 7 MHz, and 8 MHz

**Diversity**
- Channels: 2 input maximum ratio combining

**MPEG Decoder (Software):**

**Video 1**

**Video 2**
- Method: MPEG-2

**Audio**
- Audio Coding: MPEG-1, MPEG-2, MPEG-2.5 and LPCM

**System**
- Decryption (optional)
- AES Block Cipher, supporting key size of 128 or 256bit (FIPS PUB 197) selectable

**Ethernet**
- Stream MPEG-TS over UDP/RTP or RTSP
- WEB control
- GUI Configuration
- Data over UDP

**Power Requirements:**
- Input range: DC: +9 to +32
- Power consumption: See table above

**Environmental:**
- **Temperature range:**
  - Full specification: −30° to +50°C
  - Storage: −40° to +80°C
  - Humidity: 0 to 95% non-condensing

**Physical Characteristics:**
- Size: 12"L x 5.3"W x 5.1"H
- Weight: 6.388 lbs
- Egress: IP56 [TBP]
- Vibration: MIL-STD-810
- Control: WEB GUI

**Mobile Tactical Receiver Setup:**

**User Laptop with IMT Soft Decoder Application**
Mobile Tactical Receiver
Vehicle Mounted Diversity COFDM HD / SD Receiver

Outline:

Applications:

Integrated Microwave Technologies, LLC
200 International Drive, Mt. Olive, NJ 07828 USA

IMT reserves the right to make changes to specifications of products described in this datasheet at any time without notice and without obligation to notify. Versions of this device may not have been approved by the Federal Communications Commission. These versions are not offered for sale or lease until approval of the FCC has been obtained.