OCTBTS 8500
Portable Ruggedized Base Station System

Mission flexibility on one platform
Multi-Band Support
LTE/UMTS/GSM/CDMA2000
Fan-less
Ruggedized Casing
Remote Operation Wi-Fi + Bluetooth
Small and Portable 1Kg
External Dual Battery Support
Network Scan
3G/LTE UE

OCTBTS 8500 Applications

Search and Rescue | Disaster Recovery | Tactical Communications | Public Safety

- Software Defined Radio – 4G/3G/2G/CDMA2000
- Wireless Network Monitor & Scanning
- Frequency Agnostic – from 70MHz to 6GHz
- Over 21 Bands, One Platform
- Small SWaP
Highly Portable Ruggedized Base Station System

The OCTBTS 8500 is designed for quick maneuver applications; this mini base station supports all 4G/3G/2G and CDMA cellular standards and a wide range of frequency bands between 70MHz and 6GHz. It comes in 3 configurations (North America, Japan and rest of the world) and covers all operated 3GPP bands around the world. The OCTBTS 8500 offers quick and seamless cellular deployments using its state-of-the-art built-in SON functionality. This feature detects available spectrum and adapts to changing environments.

The OCTBTS 8500 delivers max throughout of 30/15 Mb/s (for Downlink/Uplink) to ground, aerial and portable applications enabling voice, video and data for tactical communications, video surveillance, border security, public safety applications and more.

Weighing less than 1Kg with a sealed metal casing, OCTBTS 8500 is an ideal solution man-portable and mobile operations. It can easily be mounted on light weight fast deployment masts for larger coverage areas. The base station can be controlled over wired Ethernet, and also, over Bluetooth or Wi-Fi for wireless remote management using a tablet or handheld.

OCTBTS 8500 Technical Description

### Performance

<table>
<thead>
<tr>
<th>Technology</th>
<th>4G</th>
<th>3G</th>
<th>2G</th>
<th>CDMA 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Band(s)</td>
<td></td>
<td></td>
<td></td>
<td>Worldwide configurations available</td>
</tr>
<tr>
<td>Max DL /UL Data Rates</td>
<td>30/15 Mbps</td>
<td>14/2 Mbps</td>
<td>120/20 Kbps</td>
<td>80/20 Kbps</td>
</tr>
<tr>
<td>Number of simultaneous users</td>
<td>32</td>
<td>32</td>
<td>15 (2 carriers)</td>
<td>32</td>
</tr>
<tr>
<td>Transmit Power</td>
<td>125mW</td>
<td>125mW</td>
<td>1W</td>
<td>1W</td>
</tr>
</tbody>
</table>

### Connectivity Interfaces

- **RF Connectors**: Single RF antenna connector (1xSMA), UE antenna connectors (2xSMA)
- **Wi-Fi**: IEEE802.11a/b/g/n 2.4GHz-5GHz
- **Bluetooth**: 4.0, 2.4GHz
- **Ethernet**: 10/100/1000 Base-T
- **USB Port**: USB 2.0 Type A, mini USB Type B
- **GPS**: 1xSMA (28dB antenna provided)
- **UE Module**: Mini PCIe form factor (User configurable)

### Mechanical

- **Size**: 118 mm x 183 mm x 59 mm; 4.7” x 7.2” x 2.3
- **Weight**: 1kg
- **Operation Temperature**: 0°C - 65°C
- **LED Indicators**: RF Transmitter active, Battery level, Charger status, Power good

### Power

- **Battery Power Source**: Up to 2h (based on usage), Spare batteries are optional
- **Power Supply**: 9V - 30V DC
- **Power Source**: Dual power input connector for two swappable external batteries