BroadBand Solutions 2.4GHz

2.40-2.4835 GHz BROADBAND SPECIFICATIONS

**KEY FEATURES**

- Up to 108Mbps
- 20+ mile range (LOS)
- Extensive Security options including WPA, WPA2 and MAC/RADIUS authentication
- 802.11b/g compatible
- DSSS/OFDM technology
- Single Unit Operation™: any unit may serve as an Access Point, Repeater, Remote and Mesh
- IP67 and NEMA exceeding environment specifications
- Complete Utility Suite to simplify set-up and operation
- Available as: Integrated Antenna, Stand Alone and Access Point Cluster
- 2 Year Warranty

**APPLICATIONS**

- Security Systems
- Video Surveillance/ Monitoring
- High Speed Backbones
- T1/E1 Replacement
- Mobile Data & Remote Access
- Mesh Networking
- Remote Sensor Data Collection
- Backhaul connectivity to legacy networks

To learn more about Intuicom BroadBand Solutions and how to make your applications more productive, please contact us at: info@intuicom.com or call 303.449.4330

**OVERVIEW**

The Intuicom 2.4GHz BroadBand Solution provides the highest data rates along with the most robust industry-established security features. Designed for high bandwidth and long range industrial applications, the 2.4GHz BroadBand Solution provides a full-featured enterprise class transceiver.

**FUNCTIONALITY AND FLEXIBILITY**

Utilizing best-in-class DSSS/OFDM-based technology along with the 802.11b/g industry standard, the 2.4GHz BroadBand Solution leads the marketplace in performance and efficiency. Implementing dynamic modulation techniques and auto-optimizing bandwidth allocation, the 2.4GHz BroadBand Solution is inherently resistant to interference from other RF equipment. With robust environmental specifications and security that includes, WPA, WPA2 (802.11i), MAC and RADIUS authentication, the 2.4GHz BroadBand Solution provides superior “real world” throughput and performance.

**BROADBAND PRO SOFTWARE**

With Intuicom’s BroadBandPro™ software, configuring a wireless solution has never been easier. Intuicom’s set-up makes getting operational a straight-forward and simple process. The 2.4GHz BroadBand Solution includes utilities for site survey, antenna alignment, and auto discovery.

With proven performance in dense RF environments, Intuicom’s wireless networks power through the congestion to provide reliable data transport where other technologies fall short.
# BroadBand Solutions 2.4GHz

## General Specifications

<table>
<thead>
<tr>
<th></th>
<th>Integrated</th>
<th>Stand-Alone</th>
<th>Access Point Cluster</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>8.2&quot; x 5.9&quot; x 2.3&quot; w/ antenna</td>
<td>11.0&quot; x 9.7&quot; x 4.7&quot;</td>
<td>12.5&quot; x 9.3&quot; x 5.5&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>4.3 lbs.</td>
<td>2.8 lbs. (1 unit)</td>
<td>7.9 lbs.</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>10-28 VDC</td>
<td>10-28 VDC (up to 2 units)</td>
<td>38-56 VDC (4 units)</td>
</tr>
<tr>
<td>Number of Radio Units</td>
<td>1 unit</td>
<td>1 - 2 unis</td>
<td>4 units</td>
</tr>
<tr>
<td>Antenna Type</td>
<td>Integrated Panel</td>
<td>Panel, Omni, Parabolic</td>
<td>Sector</td>
</tr>
<tr>
<td>Environmental</td>
<td>-45 to +85°C (IP67)</td>
<td>-45 to +85°C</td>
<td>-45 to +85°C</td>
</tr>
</tbody>
</table>

## Wireless Interface

- **Frequency Range**: 2.40 - 2.4835GHz
- **Peak Transmit Power**: 28 dBm (600 mW)
- **Receive Sensitivity**: -97 dBm to -74dBm
- **Channel Widths**: 5MHz, 10MHz, 20MHz, 40MHz
- **Modulations**: DSSS/OFDM, BPSK, QPSK, 16QAM, 64QAM
- **Protocols**: 802.11b/g, Proprietary
- **Dynamic Frequency Selection**: Automatic or User Configurable

## Wireless Networking

- **Bursting**
- **Compression**
- **Dynamic Ack Timeout**
- **TLS EAP Method**
- **Passthrough EAP Method**
- **Hardware Retries**
- **Preamibe Mode**
- **Periodic Calibration**
- **Disconnect Timeout**
- **Onfail Retry**
- **CSMA Disable**

## Security

- **802.11i-WPA-PSK**
- **802.11i-WPA2-PSK**
- **802.11i-WPA-EAP**
- **802.11i-WPA2-EAP**
- **802.11i-TKIP**
- **802.11i-AES-CCM**
- **802.11i-802.1x**
- **802.11i-RSN**
- **Radius Authentication**
- **MAC Access Control List**

## Regulatory Agency Certifications

- FCC Part 15.247
- Industry Canada RSS-210
- RoHS Compliant

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Note: Specifications subject to change without notice.