BroadBand Solutions 5GHz

5.150-5.825 GHz BROADBAND SPECIFICATIONS

OVERVIEW
The Intuicom 5GHz 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 5GHz BroadBand Solution provides a full-featured enterprise class transceiver.

FUNCTIONALITY AND FLEXIBILITY
Utilizing best-in-class OFDM-based technology along with the 802.11a industry standard, the 5GHz BroadBand Solution leads the marketplace in performance and efficiency. Implementing dynamic modulation techniques and auto-optimizing bandwidth allocation, the 5GHz 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 5GHz BroadBand Solution provides superior “real world” throughput and performance.

BROADBAND PRO SOFTWARE
With Intuicom’s BroadBand Pro™ software, configuring a wireless solution has never been easier. Intuicom’s set-up makes getting operational a straight-forward and simple process. The 5GHz 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.

KEY FEATURES
- Up to 108Mbps
- 20+ mile range (LOS)
- Extensive Security options including WPA, WPA2 and MAC/RADIUS authentication
- 802.11a compatible
- 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

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

Intuicom’s BroadBand Pro software provides real-time access to the status of an Intuicom network from a single screen.
# BroadBand Solutions 5GHz

## 5.150-5.825GHz BROADBAND SPECIFICATIONS

### 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” x 5.9” x 2.3” w/ antenna</td>
<td>11.0” x 9.7” x 4.7”</td>
<td>12.5” x 9.3” x 5.8”</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>up to 4 units</td>
<td>4 units</td>
</tr>
<tr>
<td>Antenna Type</td>
<td>Panel, 23dbi</td>
<td>Panel, Sector, 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

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>5.150 - 5.825GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Transmit Power</td>
<td>28 dBm (600 mW)</td>
</tr>
<tr>
<td>Receive Sensitivity</td>
<td>-94 dBm to -74dBm</td>
</tr>
<tr>
<td>Channel Widths</td>
<td>5MHz, 10MHz, 20MHz, 40MHz</td>
</tr>
<tr>
<td>Modulations</td>
<td>OFDM, BPSK, QPSK, 16QAM, 64QAM</td>
</tr>
<tr>
<td>Protocols</td>
<td>802.11a, Proprietary</td>
</tr>
</tbody>
</table>

### Wireless Networking

- Bursting
- Compression
- Dynamic Ack Timeout
- TLS EAP Method
- Passthrough EAP Method
- Hardware Retries
- Preamble Mode
- Periodic Calibration
- Disconnect Timeout
- Onfail Retry
- CSMA Disable
- Station Channel Scan List

### 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

**Note:** Specifications subject to change without notice. Visit www.intuicom.com for updates.

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**Intuicom Radios Require Professional Installation**