OVERVIEW
Intuicom continues its best-in-class tradition of wireless solutions with the Nitro58™ line of broadband products. At up to 108 Mbps (per radio module), this advanced wireless 802.11a solution provides industry-leading 600mW transmit power, extended range, and the high throughput demanded by today’s bandwidth intensive applications. The Intuicom Nitro58™ line also includes an industry first: automatic GPS-based geo-location of units through new BroadbandPro™ 2.0 software, available only from Intuicom. Other standard-setting features include an external status panel which combines Received Signal Strength Indicators (RSSI), power indicator, and a power-on reset button.

NEW BROADBANDPRO™ 2.0 SOFTWARE
The all-new version of Intuicom’s Broadband Pro software includes advanced mapping capabilities and industry firsts such as automatic GPS-based location and display, self-organizing network discovery, and more. All while maintaining the unsurpassed ease-of-use of previous versions.

GPS automatically maps network — no manual entry and always up-to-date

External RSSI LEDs simplify antenna alignment. Reset button saves valuable time.

New Broadband Pro™ 2.0 includes advanced mapping and self-organizing network discovery.

KEY FEATURES
- 108/216/432 Mbps (max)
- 20+ mile range (LOS)
- 10/100/1000Mbps - Ethernet
- IEEE 802.3af/at PoE compliant
- Embedded GPS
- RSSI Indicators
- Reset Button
- IEEE 802.11a and Proprietary Wireless Protocol
- Orthogonal Frequency Division Multiplexing (OFDM) technology
- Single Unit Operation™ — any radio may be configured as an Access Point, Repeater, Remote, or Mesh Node
- Hardware Options: Integrated Panel Antenna, Stand Alone Enclosure and Access Point Cluster (Quad Radio)
- New, industry-leading software for simple set-up and operation
- Industrial Grade — IP67 and NEMA-exceeding environment specifications

APPLICATIONS
- Traffic and ITS
- Security systems
- Video/surveillance monitoring
- High speed backbones
- T1/E1 replacement
- Mobile data and remote access
- Remote sensor data collection

To learn more about Intuicom Broadband Solutions and how to make your applications more robust and easy to manage, contact broadband@intuicom.com or call 303-449-4330.
### General Specifications

<table>
<thead>
<tr>
<th></th>
<th>Integrated</th>
<th>Stand-Alone</th>
<th>Access Point Cluster</th>
</tr>
</thead>
<tbody>
<tr>
<td>PoE Standard</td>
<td>IEEE 802.3af/at</td>
<td>IEEE 802.3af/at</td>
<td>IEEE 802.3at-HP (60watts)</td>
</tr>
<tr>
<td>RF Data Rate (maximum)</td>
<td>108Mbps</td>
<td>108/216Mbps</td>
<td>432Mbps</td>
</tr>
<tr>
<td>Geolocation</td>
<td>Embedded GPS</td>
<td>Embedded GPS</td>
<td>Embedded GPS</td>
</tr>
<tr>
<td>Size</td>
<td>8.2”x5.9”x2.3”</td>
<td>11.0”x9.7”x4.7”</td>
<td>12.5”x9.3”x5.8”</td>
</tr>
<tr>
<td>Ethernet Interface</td>
<td>10/100/1000Base-T</td>
<td>10/100/1000Base-T</td>
<td>10/100/1000Base-T</td>
</tr>
<tr>
<td>LED Indicators/Push Button</td>
<td>RSSI, Status, Power, Reset Button</td>
<td>RSSI, Status, Power, Reset Button</td>
<td>Power, Reset Button</td>
</tr>
<tr>
<td>Number of Radio Modules</td>
<td>1 RF module</td>
<td>1-2 RF modules</td>
<td>4 RF modules</td>
</tr>
<tr>
<td>Antenna Included</td>
<td>Panel</td>
<td>n/a</td>
<td>(4) Sector or (4) Panel</td>
</tr>
<tr>
<td>Antenna Connector</td>
<td>(1-2) Type-N(F)</td>
<td>(4) Type-N(F)</td>
<td></td>
</tr>
<tr>
<td>Environmental</td>
<td>-45 to +85°C (IP67)</td>
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</tr>
</tbody>
</table>

### Wireless Interface

- **Wireless Protocols**: IEEE 802.11a and Proprietary
- **Frequency Range**: 5.150 - 5.825GHz
- **Peak Transmit Power**: 28dBm
- **Data Rate**: 108/216/432Mbps
- **Receive Sensitivity**: -97 to -74dBm
- **Channel Widths**: 5, 10, 20, 40MHz
- **Modulations**: OFDM, BPSK, QPSK, 16QAM, 64QAM
- **Topology**: Point-to-Point, Point-to-Multipoint, Mesh

### 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**
- **128/256 Encryption**

### PoE Gigabit Injector

- (x1) 10/100/1000Base-T(X) PoE port
- IEEE 802.3af/at-at-HP
- Built-in Surge Protection
- IEEE 802.3u for 100Base-TX
- IEEE 802.3ab for 1000Base-T
- Operating Temperature of -40 to +80°C
- Dimension of 125 x 75 x 38mm
- LED Indicators (Power, Fault, Status)
- Rigid IP-30 housing design

### Wireless Regulatory Approvals

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

### Broadband 2.0 Software

- Advanced Mapping with Network Alert Reporting
- GPS Geolocation of Radios (an Industry first)
- Self-Organizing Network Tree
- Drag and Drop Radio Configuration Tool
- IP Discovery Tool and Conflict Resolution
- Color Coded Icons display Radio Type, Network Topology and Health Status
- Local or Remote Configuration
- Network-Wide Diagnostics
- Bandwidth Test Tool
- Spectrum Analysis/Scan Tool
- Real-Time RSSI
- Client Connection Quality
- Audio Aiming Tool
- Advanced User Control (Expert Mode)

### Additional Networking Features

- Dynamic Routing (OSPFv3, BGP+, RIP)
- FTP, SSH, Telnet and Terminal capability
- Sniffer and Fetch Tools
- Firewall Management (address lists)
- SNMP v1, v2, v3 Syslog
- IPV6 support
- DNS name servers
- DHCP Server / Client / Relay

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*Note: Specifications subject to change without notice. PoE Gigabit Injector sold separate.*

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INTUICOM RADIOS REQUIRE PROFESSIONAL INSTALLATION