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. Other standard-setting features include an external status panel which combines Received Signal Strength Indicators (RSSI), power indicator, and a power-on reset button.

FUNCTIONALITY & FLEXIBILITY

Intuicom Broadband Wireless Solutions emphasize “keep it simple”. Each unit is universally configurable as either an access point or endpoint, and each unit can operate within either point-to-point, point-to-multipoint, or mesh topologies.

Intuicom’s Broadband Wireless Solutions are available in Stand-Alone (SA), Integrated, or Access Point Cluster configurations. Configuration and setup are straightforward and our tools provide the means to get a system up and running quickly.

Our solutions offer flexible configuration options to meet the specific needs and expectations across a broad spectrum of environments and applications.

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)
- Simple set-up and operation
- Industrial Grade: IP67 and NEMA-exceeding environment specifications
- 2 Year Warranty

APPLICATIONS

- Traffic and ITS
- Security systems
- Video/surveillance monitoring
- Video backhaul
- 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.
**WIRELESS INTERFACE**

<table>
<thead>
<tr>
<th>Wireless Protocols</th>
<th>IEEE 802.11a and Proprietary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>5.150 - 5.825GHz</td>
</tr>
<tr>
<td>Peak Transmit Power</td>
<td>28dBm</td>
</tr>
<tr>
<td>Data Rate (maximum)</td>
<td>108Mbps</td>
</tr>
<tr>
<td>Receive Sensitivity</td>
<td>-97 to -74dBm</td>
</tr>
<tr>
<td>Channel Widths</td>
<td>5, 10, 20, 40MHz</td>
</tr>
<tr>
<td>Modulations</td>
<td>OFDM, BPSK, QPSK, 16QAM, 64QAM</td>
</tr>
<tr>
<td>Topology</td>
<td>Point-to-Point, Point-to-Multipoint, Mesh</td>
</tr>
<tr>
<td>Dynamic Frequency Selection</td>
<td>Automatic or User Configurable</td>
</tr>
</tbody>
</table>

**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

**IEEE NETWORKING FEATURES**

- 802.11e WWN and QoS
- 802.11h DFX and TPC
- 802.1d Ethernet Bridging
- 802.1p Traffic Prioritization
- 802.1q VLAN
- 802.1s Spanning Tree
- 802.1w Rapid Spanning Tree
- 802.3-1998 Ethernet
- 802.3ab Gigabit Ethernet
- 802.3ac Extended Frame Size for 802.1q & 802.1p Support
- 802.3ad Link Aggregation/Port Bonding/ Port Trunking
- 802.3i 10 Mbps Ethernet
- 802.3u 100 Mbps Ethernet and Auto-Negotiation
- 802.3x Full Duplex and Flow Control

**WIRELESS REGULATORY APPROVALS**

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

**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

**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 +80C
Dimension of 125 x 75 x 38mm
LED Indicators (Power, Fault, Status)
Rigid IP-30 housing design

Note: Specifications subject to change without notice.
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