Intuicom™
Nitro58™

802.11n 5GHz BROADBAND SOLUTIONS

OVERVIEW
Intuicom continues its best-in-class tradition of wireless solutions with the Nitro58™ line of broadband products. At up to 300Mbps, this advanced wireless 802.11n solution provides the extended range and higher 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 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.

APPLICATIONS
• Traffic and ITS
• Security systems
• Video/surveillance monitoring
• Backhaul connectivity to legacy networks
• High speed backbones / backhaul
• T1/E1 replacement
• Mobile data and remote access
• Remote sensor data collection

To learn more about Intuicom Wireless 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>Integrated NITRO-58n</th>
<th>Stand-Alone NITRO-SA58n</th>
<th>Stand-Alone Dual NITRO-SA58n58n</th>
</tr>
</thead>
<tbody>
<tr>
<td>PoE Standard</td>
<td>IEEE 802.3af/at</td>
<td>IEEE 802.3af/at</td>
</tr>
<tr>
<td>Ethernet</td>
<td>10/100/1000Base-TX</td>
<td>10/100/1000Base-TX</td>
</tr>
<tr>
<td>Geolocation</td>
<td>Embedded GPS</td>
<td>Embedded GPS</td>
</tr>
<tr>
<td>Size</td>
<td>13.2” x 13.2” x 3.5”</td>
<td>8.6” x 8.6” x 3.2”</td>
</tr>
<tr>
<td>Weight</td>
<td>4.0 lbs.</td>
<td>2.5 lbs.</td>
</tr>
<tr>
<td>LED Indicators/Control</td>
<td>RSSI, Status, Power, Reset Button</td>
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</tr>
<tr>
<td>Antenna Included</td>
<td>Dual Polarized Panel</td>
<td>n/a</td>
</tr>
<tr>
<td>Antenna Connector</td>
<td>n/a</td>
<td>(x2) Type-N(F)</td>
</tr>
<tr>
<td>Environmental</td>
<td>-40 to +70°C (IP67)</td>
<td>-40 to +70°C (IP67)</td>
</tr>
</tbody>
</table>

**WIRELESS INTERFACE**

- **Wireless Protocols**
  - IEEE 802.11a/n
  - and Proprietary
- **Frequency Range**
  - 5.150 - 5.825GHz
- **Average Transmit Power**
  - 27dBm +/-2dBm
- **Data Rate**
  - 300Mbps/600Mbps (dual)
- **Receive Sensitivity**
  - -97 to -74dBm
- **Channel Widths**
  - 20, 40MHz
- **Modulations**
  - OFDM, BPSK, QPSK, 16QAM, 64QAM
- **MIMO**
  - 2x2:2
- **Topology**
  - Point-to-Point, Point-to-Multipoint
- **Dynamic Frequency Selection**
  - Automatic or User Configurable

**SECURITY**

- **IEEE 802.11**
  - WPA-PSK
  - WPA2-PSK
  - WPA-EAP
  - WPA2-EAP
  - TKIP
  - AES-CCM
  - 802.11i
  - WPA-EAP
  - WPA2-EAP
  - Radius Authentication
  - MAC Access Control List
  - 128/256 Encryption

**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

**IEEE NETWORKING FEATURES**

- 802.11e
  - WMM and QoS
- 802.11h
  - DFS 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

**PoE GIGABIT INJECTOR**

(x1) 10/100/1000Base-T(X) PoE port
- IEEE 802.3at/af PoE
- 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. © 2016 Intuicom, Inc. Revised 11.7.2016

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