

AXIOM

HIGH THROUGHPUT BROADBAND WIRELESS RADIO



OVERVIEW

Intuicom continues its best-in-class tradition of wireless solutions with the **Axiom™** line of broadband products. This advanced wireless solution provides industry-leading transmit power, extended range, and the **highest 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". Our solutions offer flexible configuration options to meet the specific needs and expectations across a broad spectrum of environments and applications.

Simple configuration and setup. Our tools provide the means to get a system up and running with a Single-Unit- Operation™ using our renowned software Broadband Pro Enterprise™

Any radio may be configured as an Access-Point, Repeater, Remote, or Mesh Node using the latest MIMO & OFDM technologies.

Ruggedized units that work under the hardest conditions, built to exceed NEMA environment specifications.

KEY FEATURES

- 866 Mbps single, 1.7 Gbps dual
- 30+ mile range (LOS).
- GPS geolocation RSSI Indicators, Reset Button,
- Adaptive Modulation, Dynamic Frequency Selection
- Multiple Hardware Options: Integrated Panel Antenna, Stand Alone Enclosure and Dual Access Point
- 128 & 256 Bit AES Encryption
- IEEE 802.3 af/at

GENERAL SPECIFICATIONS

	Integrated	Stand-Alone	Dual AP	Dual AP INT
PoE Standard	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
RF Data Rate (maximum)	866 Mbps	866 Mbps	1.7 Gbps	1.7 Gbps
Geolocation Embedded GPS	Embedded (optional)	Embedded (optional)	Embedded (optional)	Embedded (optional)
Size	15.2" x 15.2" x 4.5"	7.5" x 8.5" x 3.5"	12.5"x9.3"x5.8"	15.2" x 15.2" x 4.5
Ethernet Interface	10/100/1000 Base-T	10/100/1000 Base-T	10/100/1000 Base-T	10/100/1000 Base-T
Weight	4.0 lbs.	2.5 lbs.	8.5 lbs.	4.5 lbs.
LED Indicators/Push Button	RSSI, Status, Power Reset Button	RSSI, Status, Power Reset Button	Power and Reset Button	Power and Reset Button
Number of Radio Modules	1 RF Module	1 RF Module	2 RF Module	2 RF Module
Antenna Included	MIMO Panel 23.5 dBi	n/a	n/a	MIMO Panel 23.5 dBi
Antenna Connector	n/a	2 Type-N(F)	4 Type-N(F)	(2) Type-N(F)
Environmental	-40° to +65 C	-40° to +65 C	-40° to +65 C	-40° to +65 C

WIRELESS INTERFACE

Wireless Protocols	IEEE 802.11a/n/ac and Proprietary
Frequency Range	5.150-5.825 GHz*
Peak Transmit	27 dBm (w/o antenna)
Data Rate	Up to 866 Mbps per module
Channel Widths	20, 40, 80 MHz
Modulations	OFDM, BPSK, QPSK, 16-QAM, 64-QAM, 256 -QAM
Topology	Point-to-Point, Point-to-Multipoint, Mesh
Dynamic Frequency Selection	Automatic or User

*Band availability is subjected to country regulations.
The US bans the use of channels in between 5.250 and 5.720 GHz.

WIRELESS REGULATORY APPROVALS

FCC Part 15.247
Industry Canada RSS-210
RoHS Compliant
Standard 2-year warranty



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 Bit AES Encryption

IEEE NETWORKING FEATURES

802.11e WMM and QoS
802.11h DFX and TPC
802.1d Ethernet Bridging
802.1p Traff 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

Note: Specifications subject to change without notice.