

AXIOM

MULTI-FEATURED, MULTI-FREQUENCY BROADBAND SOLUTION



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 embedded GPS for positioning, an external status panel which combines Received Signal Strength Indicators (RSSI), power indicator, and a power on/reset button.

FUNCTIONALITY & FLEXIBILITY

Implementing dynamic modulation techniques, auto-optimizing bandwidth allocation, and industry leading security capabilities, the Axiom delivers the performance and security demanded by today's wireless applications. Intuicom offers this performance in combination with additional frequencies choices and configurations to provide a broad array of solutions.

BROADBAND PRO SOFTWARE

With Intuicom's Broadband Pro™ software, configuring your wireless network has never been easier. Intuicom's drag and drop set-up makes getting operational a straight forward and simple process, while a variety of real-time network monitoring and reporting tools provide the means to optimize and manage your network.

KEY FEATURES

- Up to 600 Mbps
- 20+ mile range (LOS)
- 2.4GHz, 4.9 GHz or 5 GHz options
- RSSI, Power LED, and Reset Button
- GPS/Geolocation
- 802.3 at/af compliant
- RS-232 Serial and Ethernet Interfaces
- Heavy-duty mounting hardware

COMPLETE COMMUNICATION SOLUTIONS

A complete communication system lives inside every Intuicom Wireless Solution.

- Service and support
- Exclusive product and software features
- Field proven reliability
- Network design service

GENERAL SPECIFICATIONS

	Integrated	External Antenna Unit	Dual External Antenna Unit	Dual Unit - Integrated
PoE Standard			802.3 at/af	
RF Data Rate (maximum)	300 Mbps	300 Mbps	600 Mbps	600 Mbps
Geolocation/GPS			GPS- L1	
Size	10.4" x 10.4" x 3.7"	9.6" x 8.7" x 3.3"	9.9" x 9.0" x 3.3"	10.4" x 10.4" x 3.7"
Ethernet Interface			10/100/1000/2500/5000	
Weight	3.9 lbs	3.4 lbs	3.9 lbs	4.4 lbs
LED Indicators/Push Button			RSSI, Power, and Reset	
Number of Radio Modules	1	1	2	2
Antenna Included	Panel, MIMO, 20dBi	n/a	n/a	Panel, MIMO, 20dBi
Antenna Connector	n/a	2-Type N(f)	4-Type N(f)	2-Type N(f)
Environmental*	-40° to +75 C	-40° to +75 C	-40° to +75 C	-40° to +75 C

*Minor temperature variances may be present in certain Dual Axiom models, contact the factory for details.

WIRELESS INTERFACE

	Axiom Single	Axiom Dual - Module Dependent
Wireless Protocols*	802.11 a/b/g/n and proprietary	802.11 a/b/g/n and proprietary
Frequency Range	5.15-5.82 GHz/2.4-2.4835 GHz/4.94-4.99 GHz**	5.15-5.82 GHz/2.4-2.4835 GHz/4.94-4.99 GHz**
Peak Transmit*	27-30 dBm (w/o antenna)	27-30 dBm (w/o antenna)
Data Rate	Up to 300 Mbps	Up to 600 Mbps
Channel Widths	5/10/20/40 MHz	5/10/20/40 MHz
Modulations		OFDM, BPSK, QPSK, 16-QAM, 64-QAM
Topology		Point-to-Point, Point-to-Multipoint, Mesh
Dynamic Frequency Selection		Automatic or User

*Wireless Protocols and Transmit Power are frequency dependent.

**Band availability is subjected to country regulations.

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-bit/256-bit AES Encryption

IEEE NETWORKING FEATURES

- 802.11e WMM and QOS
- 802.11h DFS and TPC
- 802.1d Ethernet Bridging
- 802.1q VLAN
- 802.1s Spanning Tree
- 802.1w Rapid Spanning Tree

WIRELESS REGULATORY APPROVALS

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



Security



ITS/Traffic



Environmental and Structural Monitoring



Survey and Machine Control

Note: Specifications subject to change without notice.