



AirTegrity™ 3604 Outdoor Series
BTS—Base Transceiver Station/Access Points
900MHz, 2.4GHz, 5GHz and 4.9 GHz



Key Features:

- Outdoor Enclosure
- Scalable Solutions
- Routing Support
- Local AP or SU Configuration
- Complete Security
- AES, IPsec
- QoS for Voice & Video
- VPN and VLAN Support
- Full IP Services
- LOS, NLOS Operation
- Unlicensed & Licensed Frequencies 900 MHz, 2.4GHz, 5GHz & 4.9GHz Public Safety
- Optional GPS for network time stamp



12W x 12H x 4D
Outdoor Enclosure

AT3604 Outdoor Series BTS / Access Points

The AirTegrity™ AT3604 Outdoor Series Base Transceiver Stations / Access Points provides high-powered 802.11a,b,g solutions for commercial grade, carrier class ISP's and Enterprise users seeking higher throughput and total network control. As part of the AirTegrity family, the AT3604 Outdoor Series BTS/Access Points provides a cost effective means of providing data, VoIP, and streaming video services in areas where traditional wire-line doesn't exist and RF interference is not an issue. It supports firewalls, and the most secure encryption techniques available including AES, DES and 3DES enabling them to function in both enterprise and residential settings.

Dynamic Routing (RIP, OSPF) - AirTegrity offers two widely accepted and versatile dynamic routing protocols to adapt to smaller, less demanding networks, as well as city wide metropolitan MESH networks.

RIP (Routing Information Protocol) is one of the most commonly used interior gateway protocol (IGP) which helps routers dynamically adapt to changes in network connections, by communicating information about which networks each router can reach and how far away those networks are. RIP is a mature, stable, widely supported, and easy to configure routing protocol. Its simplicity is well suited for use in small autonomous systems that do not have enough redundant paths to warrant the extra system overhead and user administration of a more sophisticated protocol.

OSPF (Open Shortest Path First) protocol is a hierarchical IGP, using a link-state in the individual areas that make up the hierarchy. The state of the link is a description of that interface and of its relationship to its neighboring routers. For example, the IP address of the interface, the mask, the type of network it is connected to, the routers connected to that network and so on. The collection of all these link-states would form a link-state database for better load balancing and different methods of password authentication. Also, updates are only sent when routing changes occur instead of periodically. This ensures a better use of bandwidth. This of course would lead to more complexity in configuring and troubleshooting OSPF networks. Also, this will introduce more overhead in memory allocation and CPU utilization. The AT3604 Outdoor Enclosure provides outstanding RF and weatherproof performance with convenient mounting options. The AP includes one N-female connector for attaching the appropriate external sector antenna, and comes complete with a POE injector and localized power cord and a single 10/100 Base-T Ethernet port.

With a power output up to 700 mW, the AT3604 is ideal for applications such as:

- Indoor coverage for Municipal, Commercial and Academic requirements
- Public Hotspots
- Residential High Speed Internet Access
- Voice over IP
- Outdoor Video Surveillance
- Safety Monitoring





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Feature	Technical Specifications	Feature	Physical Specifications
Capability	LOS, non LOS, TDD (Time Division Duplex)	Dimensions Mount IEC Standard Wind Load	W 12 x H 12 x D 4 inches AZ/EL control—Pole Size 1¾"±3" ø Water Tightness IEC 529 / IP67 Front Thrust 47 Kg - Side Thrust 6 Kg
Modulation	Auto Select QPSK, 16 QAM, 64 QAM	Temperature	-40° to +55° C,
Encryption	DES, 3DES, AES	Humidity	100% condensing, Outdoor Enclosure
MAC	PtP, Point to Multi-Point , Ad Hoc	Regulatory	FCC Part 15 subpart C including 15.205/207 and 247, EN 300.328
PHY	OFDM	Power / Data	PoE 19W & single 10/100 Base-T Ethernet Port
Data Rates	Configurable or Dynamically Auto Select 6-108 Mbps	External Antenna Connector	N Type Female
Latency	2-6ms	GPS	Optional

AT3604 Outdoor Series SMB/SOHO Radio Configuration Matrix

Frequency	900 MHz	2.4-2.484 GHz	4.950-4.990 GHz Public Safety Band	5.725-5.850GHz
Protocol	802.11g	802.11b/g	802.11a	802.11a
Channel Size	5, 10, 20MHz	22MHz	5, 10, 20 MHz	20 MHz
Maximum Transmit Power	+28 dBm	+28 dBm	+26 dBm	+28 dBm
Fade Margin Included	20 dB	20 dB	20 dB	20 dB
Rx Sensitivity Data Rate, Distance.	-93 dBm, 1Mbps -92 dBm, 2 Mbps -90 dBm, 6 Mbps -88 dBm, 11 Mbps -86 dBm, 18 Mbps -82 dBm, 24 Mbps -73 dBm, 48 Mbps -70 dBm, 54 Mbps	-97dBm, 1Mbps -94dBm, 6Mbps -91dBm, 12Mbps -90dBm, 18Mbps -86dBm, 24Mbps -83dBm, 36 Mbps -77dBm, 48 Mbps -74dBm, 54 Mbps	-93 dBm, 6 Mbps -92 dBm, 9 Mbps -91 dBm, 12 Mbps -90 dBm, 18 Mbps -85 dBm, 24 Mbps -82 dBm, 36 Mbps -76 dBm, 48 Mbps -73 dBm, 54 Mbps	-94dBm, 6Mbps, 12Mbps -93dBm, 9Mbps, 18Mbps -91dBm, 12 Mbps, 24Mbps -90dBm, 18 Mbps, 36Mbps -86dBm, 24 Mbps, 48Mbps -83dBm, 36 Mbps, 72Mbps -77dBm, 48 Mbps, 96Mbps -74dBm, 54 Mbps, 108Mbps
Integrated Antenna Options	External Antenna	External Antenna	4.900-5.350GHz 21dBi, H-9,V-9 degree beam width flat panel or External Antenna N-Type Connector	5.725-5.850GHz 22dBi, H-9,V-9 degree beam width flat panel or External Antenna N-Type Connector
*Order External antennas separately				

AT3604 Outdoor Series Ordering Options

- All radio configurations can be ordered with an N-type female connector for use with a high-gain external antenna
- Optional GPS module, request upon order. (see AirTegrity GPS datasheet for details)
- Includes basic mounting hardware, POE injector, and localized power cord
- Order additional mounting hardware and optional external antenna separately
- Contact an AirTegrity representative for details on optional configurations

About AirTegrity Wireless, Inc.

AirTegrity™ Wireless is a market leader providing a secure wireless broadband platform that encompasses all networking and security requirements for the delivery of voice and data services in a single cohesive product. AirTegrity award winning wireless modules operate in both licensed and unlicensed frequencies. AirTegrity™ Smart Networks dramatically reduce the cost of network deployment, ownership and management by integrating Multi-Channel Radio and Antenna technology with powerful routing, switching and security functions into each AirTegrity™ system.