



Description

The Terabeam Wireless TeraStar™ AP-Plus-Turbo is a powerful, feature-rich, two channel, 11 Mbps wireless Access Point that operates on the license-free 2.4 GHz band. It comes installed with the Terabeam Wireless TurboCell® firmware upgrade which provides enhanced features¹. TurboCell is designed to address specific shortcomings of the wireless protocols defined by the 802.11 standards. It has evolved from being the pioneer high-performance outdoor wireless protocol to becoming the world leader and de facto standard for large and complex broadband wireless network deployments. For indoor applications, it extends the range of a wired Ethernet network providing easy network access to both mobile users and locations that are difficult to wire. With outdoor antennas and amplifiers, long range line-of-site links are possible. The AP-Plus-Turbo supports up to 64 wireless clients.

The AP-Plus Turbo is great for use at a WIPOP (Wireless Internet Point of Presence) to offer high-speed wireless Internet services to numerous users. It can support two independent WLAN cards. It is ideal for large area Wireless LAN deployment and ease of scalability.

The AP-Plus Turbo uses 802.1x security protocol, which provides user-based authentication and automatic key distribution in both directions. Additional features offered are SNMP, MIB II and RADIUS support.

1. For a full description of the features provided by the Terabeam Wireless TurboCell firmware upgrade, please refer to the appropriate Product Specification Sheet.

Key Features

- Offers a scalable, efficient and reliable wireless point-to-multipoint solution for large networks
- Provides LAN access in an office environment
- Dual PCMCIA card slots allow for optimal configuration flexibility with 802.11b WLAN cards
- Ideal for use with WIPOPs to offer high-speed Internet access on the 2.4 GHz license free band
- FCC certified for use with Terabeam Wireless or Agere-powered WLAN cards, amplifiers and outdoor antennas
- Full SNMP management, and extended MIBs and traps
- Filtering by protocol and port
- Uses IEEE 802.1x for enhanced security with certificate authentication and automatic WEP key distribution.
- EAP-TLS based authentication via RADIUS server DHCP Client/Server and NAT features
- DHCP Client/Server and NAT features
- BOOTP/DHCP forwarding
- MAC Access Control Lists
- Radio firmware uploads - loads firmware during software upgrades
- Syslog reporting
- Configuration and monitoring is accomplished remotely through an easy to use Windows-based program

TeraStar™ AP-Plus-Turbo Includes:

- AP-Plus -Turbo Access Point with TurboCell Base software
- One (1) WLAN PC card
- 110/220 VAC power supply
- Ethernet cable
- CD-ROM with Windows-based Terabeam Configurator software and documentation

Ordering Information

Description	Terabeam P/N
TeraStar™ AP-Plus-Turbo	650-900001-003

Specifications subject to change without notice

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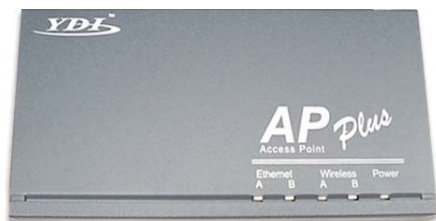
Additional Features

- Base is separable from the unit for desktop or OEM applications
- Broadcast Storm protection prevents wireless networks overloads
- Multicast filters
- VPN pass-through NAT (using IPSEC, PPTP, L2TP)
- VLAN compatibility - supports VLAN bridging
- Wireless Link Test: tests signal strength, noise level and signal-to-noise ratio
- Support of built-in encryption: 40-bit WEP, 128-bit RC4, and WEP-Plus encryption available in Terabeam Wireless or Agere-powered WLAN cards

Specifications

Interface	
LAN	Two 10/100 Base-T auto-sense Ethernet ports
Wireless	Two PCMCIA card slots
Hardware	
Power Consumption	10 Watts maximum
Power Supply	100-240 VAC 50/60 Hz
LEDs	Ethernet Link A/B Activity Wireless Link A/B Activity Power
Physical	
Dimensions (H x W x D)	5 x 10 x 2.75 in. (127 x 259 x 70 mm)
Weight	4 lbs (1.8 Kgs)
Environmental	
Operating Temperature Range	-20° C to +60° C (WLAN PC card dependant)
Humidity	95% (non-codensing)

TeraStar™ AP-Plus-Turbo front view



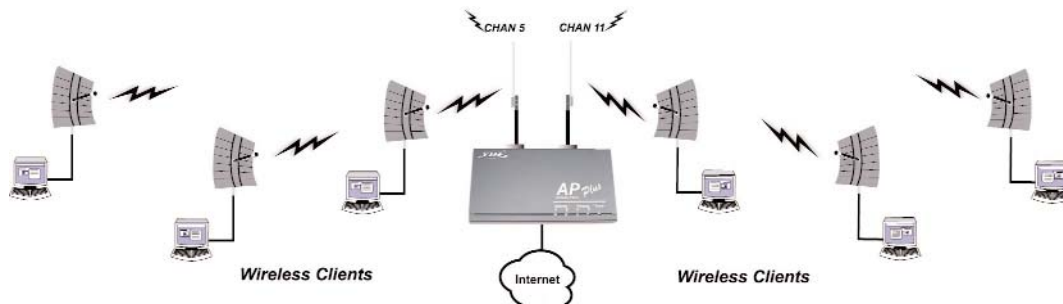
TeraStar™ AP-Plus-Turbo rear view



Power Supply

Typical Application

TeraStar™ AP-Plus-Turbo in a 2 Channel Wireless Internet Point of Presence (WIPOP)



Note: Clients must run TurboCell software to be able to work with the AP-Plus-Turbo. They can not associate to standard 802.11b AP's.