

Dell TrueMobile™ 1170 Wireless Access Point

Dell | TrueMobile™ 1170

- Tri-mode capable access point with simultaneous support for 802.11b, 802.11g and 802.11a
- Investment protection through dual slot architecture allowing easy upgrade from 802.11b to 802.11b/g and 802.11a
- Wi-Fi WPA certified interoperability with software upgradeability to AES and 802.11i
- Remote management via secure SNMP, web or Telnet interfaces
- Extensive features for public hotspot deployment



Dual-Slot Architecture

The TrueMobile 1170 is an enterprise-class access point with a dual-slot radio architecture providing flexibility and investment protection for your network by enabling mixed frequency and mixed throughput networks that accommodate a mixture of client devices for various applications. The TrueMobile 1170 is available in two configurations to suit the needs of your wireless network. The TrueMobile 1170 (802.11b/g) ships with a single 802.11b/g radio and an open slot for the additional radio of your choice, while the TrueMobile 1170 (802.11a) ships with a single 802.11a radio and an open slot for the additional radio of your choice. Radio kits are available for both 802.11b/g and 802.11a to add additional capacity or to allow simultaneous support for 802.11b, 802.11g and 802.11a in one platform for legacy and new clients. The TrueMobile 1170 dual slot architecture delivers the capacity, flexibility and investment protection required by today's businesses.

Security Features to Protect Your Network

To meet today's stringent security demands, the TrueMobile 1170 is certified for Wi-Fi Protected Access (WPA) which delivers IEEE 802.1X mutual authentication with dynamic per user, per session rotating keys. Secure management interfaces such as SNMPv2 help to ensure network security settings are not modified by unauthorized personnel. And, the TrueMobile 1170 is fully software upgradeable to AES and 802.11i.



Easy to Deploy and Manage

Performance is not the only measure of a WLAN network. Ease of deployment and simple management integration with the wired network are just as, if not more, important. The TrueMobile 1170 excels in these areas with key capabilities that simplify WLAN deployment. Automatic channel selections, adjustable transmit power and external antenna connectors are powerful tools to speed installation and optimize the wireless LAN for any environment. A broad range of secure management interfaces including SNMP, web and Telnet allow for remote management. Powerful group configuration, software updates and automatic alerts are accomplished with Wavelink Mobile Manager.

Reliable by Design

With the goal of providing the same uptime and reliability as your wired network, the TrueMobile 1170 Access Point offers capabilities such as auto reconfiguration in the event of accidental disconnect or movement to a new location, and also provides safeguards that help protect against resets that might disable the security policy you've put in place to keep your network safe. And, dual firmware image support helps ensure that an overnight system-wide software upgrade won't inadvertently leave you with a non-working network due to a server or digital signature error. And best of all, the TrueMobile 1170 Access Point is backed by Dell's outstanding service & support.



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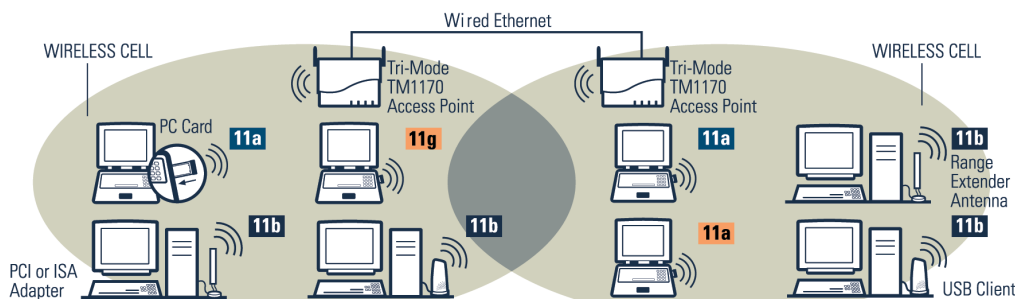
KEY FEATURES

Tri-mode 802.11b, 802.11g and 802.11a support	Simultaneous 802.11b, 802.11g and 802.11a support
Field upgradeable	Software and hardware upgradeable to support new standards
Wi-Fi Protected Access (WPA) including 802.1X and dynamic TKIP encryption	Authentication and encryption methodology including mutual authentication, message integrity check (MIC), per-packet keys initialization vector hashing and broadcast key rotation. Supports per user and per session rotating keys
Software upgradeable to AES and 802.11i	Investment protection for compatibility with next industry standard security specification
Secure Management Interfaces	SNMPv2 helps protect against unauthorized AP changes via the management interface
Multiple VLAN Support	Up to 16 separate VLANs per radio
DHCP Client	Automatically obtains an IP address from a DHCP server
Central management and configuration	Allows centralized management of AP settings including group updates of firmware
Dual Image Support	Dual Image Support ensures new AP configuration file is valid before deleting current image
Load Balancing	Redirects 802.11b clients to less busy APs based on actual throughput
Cell Size Control	Supports settable transmit power levels to adjust coverage cell size
Automatic Channel Selection	Simplifies installation by choosing optimal channel upon installation
Designed for Public Access	Extensive RADIUS Accounting support as well as intra-cell blocking to prevent client-to-client snooping
Repeating (Wireless Distribution System)	Allows extension of wireless LAN to areas without Ethernet wiring (parking lots, long corridors, etc) for 802.11b, 802.11g and 802.11a
Advanced Filtering Capabilities	IEEE 802.1d bridging with static MAC address filtering, network protocol filtering, Proxy ARP, multicast/broadcast storm threshold filtering, TCP/UDP port filtering, intra-cell peer-to-peer traffic filtering, and Spanning Tree support
Diversity 2.4 and 5 GHz antennas	Delivers optimal performance in high multipath environments
External antenna connectors	Allows use of shaped and higher gain antennas to design for efficient AP placement
Plenum Rated	Meets UL-2043 Plenum specifications for installation in air handling spaces
Wi-Fi® CERTIFIED	Industry certification ensures interoperability with other Wi-Fi certified clients

RADIO OPTIONS

	TrueMobile 1170™ 802.11b/g	TrueMobile 1170™ 802.11a
Interface	PCMCIA CardBus	PCMCIA CardBus
Standard	IEEE 802.11b/g - Wi-Fi CERTIFIED	IEEE 802.11a - Wi-Fi CERTIFIED
Frequency Bands	2.400 - 2.483 GHz	5.150 - 5.350 GHz
Output Power	17 dBm	17 dBm
Receiver Sensitivity	From -89 dBm at 6Mbps to -68 dBm at 54Mbps	From -85 dBm at 6Mbps to -65 dBm at 54Mbps
Data Rates ¹	IEEE 802.11b/g compliant 54, 48, 36, 24, 18, 12, 6 Mbps with auto fall back	IEEE 802.11a compliant 54, 48, 36, 24, 18, 12, 6 Mbps with auto fall back
Modulation Technique	Orthogonal Frequency Division Multiplexing (OFDM); 64 QAM, 16 QAM, QPSK, BPSK with rate fallback	Orthogonal Frequency Division Multiplexing (OFDM); 64 QAM, 16 QAM, QPSK, BPSK with rate fallback
Range:		
Semi-Open Environment	38m @ 54 Mbps 216m @ 6 Mbps	13m @ 54 Mbps 90m @ 6 Mbps
Open Environment	56m @ 54 Mbps 314m @ 6 Mbps	19m @ 54 Mbps 131m @ 6 Mbps
Antenna	Integrated into PCMCIA Cardbus	2 external omni-directional 5 dBi antennas with diversity 0-180 degrees articulation

WIRELESS NETWORK TOPOLOGY (example)



Supporting 802.11b/g and 802.11a clients requires both the TrueMobile 1170 802.11b/g and TrueMobile 1170 802.11a radios installed in the TrueMobile 1170 Access Point

INTERFACE

Wired Ethernet	10/100 base-T Ethernet (RJ-45)
Wireless Ethernet	2 CardBus slots for radio NIC
RS-232	Unit configuration

HARDWARE SPECIFICATION

Processor	Intel SA110-233MHz
Memory	16 MB SDRAM 8 MB Flash
Local Bus	66 MHz, 32 bit, 264 Mbit/s peak
Ethernet controller	National DP83851 MacPhyter, providing hardware Ethernet filter

PHYSICAL SPECIFICATIONS

Dimensions	65 mm x 185 mm x 261 mm (2.5 in. x 7.25 in. x 10.25 in.)
Weight	1.75 kg (3.86 lb.)

ENVIRONMENT SPECIFICATIONS

Temperature	
Operating	0°C to 40°C
Storage	-10°C to 60°C
Humidity	
Operating	90% (non-condensing)
Storage	90% (non-condensing)
Pressure	
Operating	740 - 1050 hPa

POWER SUPPLY

Types	• Integrated module • Autosensing 100/240 VAC; 50/60 Hz
Voltage	0.2 A

MECHANICAL SPECIFICATION

- Modular design
- Plastic cover
- Metal mounting plate that allows for placement on a wall, ceiling or table

LEDS

4 LEDS:	Power Ethernet LAN Activity Wireless Activity Slot A Wireless Activity Slot B
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MANAGEMENT

- SNMPv1 and SNMPv2 management
- Standard & Private traps
- Private MIB, Etherlike MIB, 802.11 MIB, Bridge MIB, MIB-II
- TFTP support
- Telnet CLI, Serial Port CLI (no proxy required)
- Wireless Network Manager with WaveLink Mobile Manager for group management (not included)
- Remote link test
- Syslog (RFC 2164)
- DHCP Server and Client

SERVICE

3 Year Advanced Exchange²



¹ For comparative purposes only. Actual speed varies with environment, equipment and other factors, and will be less. ² Replacement system or replacement part will be dispatched, if necessary, following phone-based troubleshooting, in advance of receipt of returned defective part or system. Replacements may be refurbished. Defective unit must be returned. Availability varies. Other conditions apply. © Copyright 2004 Dell Inc. All rights reserved. Dell, the Dell logo and TrueMobile are trademarks of Dell Inc. Microsoft and Windows are registered trademarks of Microsoft Corporation. Other trademarks and trade names are used to identify the entities claiming the marks and names of their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own.