VIVATO ™

CARRIER CLASS Wi-Fi

VT2200 - Vivato Indoor
Wi-Fi Base Station

VT2200 – Vivato Indoor Wi-Fi Base Station

The VT2200 is an 802.11b/g Vivato Indoor Wi-Fi Base Station. The smart antenna Base Station combines patented PacketSteeringTM technology and a phased-array antenna to cover up to 12 times the area of an industrial-grade access point. Incorporating high data-rates with greater coverage significantly lowers the cost of deployment for large coverage area Wi-Fi networks.

Install the VT2200 on a wall or in a corner to provide coverage to an entire warehouse, auditorium, office or large terminal. This approach enables a new Wi-Fi deployment architecture with fewer Wi-Fi devices, rather than with many access points, resulting in a system that is less expensive to install, manage and secure.

PRODUCT HIGHLIGHTS

• High data-rate 802.11b/g capacity supports bandwidth intensive applications

• Industry leading security – WPA compliant and includes AES hardware for 802.11i

• Transmit Power Control support for customizable coverage deployments

• Vivato High-power Power over Ethernet

• Standard wireless bridging via Wireless Distribution System (WDS) between Vivato devices

• Static IP and DHCP client support allow both manual and dynamic IP address assignment for flexible configuration and setup

• Ruggedized durable metal chassis design with standard VESA hole mounting pattern for simple installation

• Support for SNMP, HP OpenView, and other standards-based management software ensures seamless integration with the wired network

• Intuitive WebUI provides configuration, diagnostics, and performance monitoring using a remote web browser from anywhere on the network

• Support up to 16 multiple SSIDs and VLANs

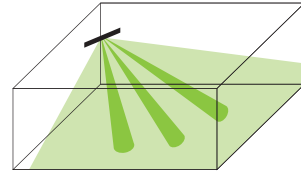• Filter client-to-client traffic via ICCF

By reducing the number of devices and their associated installation costs, Vivato Wi-Fi Base Stations enable IT and network managers to provide Wi-Fi where it's needed at an affordable price.

Suitable deployment environments:

- Warehouses, retail stores and shopping malls
- University auditoriums, libraries and cafeterias
- Airports terminals, train stations and bus terminals
- Hotels and resorts

- Stadiums and arenas
- Convention centers and exhibition halls
- Museums
- Military barracks

PRODUCT SPECIFICATIONS

Processor	266 MHz
Memory	64 MB SDRAM 16 MB Flash
Antenna	Integrated 21dBi high-gain phased array antenna
Mounting	Standard VESA 100 compliant (100mm^2 hole mounting pattern with 4mm holes) Support both corner and wall mount
LEDs	4 LED: 1 Power, 2 Ethernet Link Activity, 1 Device Status
AC Power Supply and Injector	48VDC 100-240VAC, 50-60Hz, 37 Watts maximum power supply
Power Requirement	48VDC, 25 Watts maximum, Vivato High-power Power Over Ethernet

INDOOR DEPLOYMENT
Corner Mount

WIRELESS SPECIFICATIONS

PHY and MAC standard	802.11b and 802.11g
Media Access Control	Carrier Sense Multiple Access / Collision Avoidance (CSMA/CA)
Wireless Medium	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g: Orthogonal Frequency Division Multiplexing (OFDM)
EIRP	41 dBm typical @ 802.11b rates 37 dBm typical @ 802.11g rates
Supported Data Rates	802.11b: 1, 2, 5.5, 11 Mbps, auto-rate fallback 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps
Coverage Pattern	90° horizontal and 12° vertical field of view
Frequency Band	2.4 - 2.483 GHz
Operating Channels	IEEE 802.11b/g North America Channel Set (1-11)
WLAN Architecture	802.11 infrastructure – ESS Wireless Distribution System (WDS)
Receive Sensitivity CCK: 8% PER, 1000 bytes OFDM: 10% PER, 1024 bytes	Rate (mode) receiver sensitivity with typical (dBm) 54 (OFDM) -72dBm 48 (OFDM) -76dBm 36 (OFDM) -81dBm 24 (OFDM) -84dBm 18 (OFDM) -87dBm 12 (OFDM) -90dBm 9 (OFDM) -91dBm 6 (OFDM) -92dBm 11 (CCK) -90dBm 5.5(CCK) -93dBm 2 (CCK) -94dBm 1 (CCK) -95dBm

WIRELESS SPECIFICATIONS (con't)
Operating Range

VT2200 @ ceiling height, 85% coverage, 3.5 path loss coefficient Typical 802.11g Wi-Fi client with 12 dBm-17dBm output power

802.11g Data Rate	Range (feet/meters)
54Mbps	115ft/35m
48Mbps	180ft/55m
36Mbps	295ft/90m
24Mbps	410ft/125m
18Mbps	476ft/145m
12Mbps	541ft/165m
9Mbps	623ft/190m
6Mps	673ft/205m

801.11b Data Rate	Range (feet/meters)
11Mbps	591ft/180m
5.5Mbps	673ft/205m
2Mbps	705ft/215m
1Mbps	820ft/250m

Warehouse Environment:
VT2200 @ ceiling height, 85% coverage, 3.0 path loss coefficient Typical Wi-Fi client with 12 dBm-17dBm output power

802.11g Data Rate	Range (feet/meters)
54Mbps	213ft/65m
48Mbps	328ft/100m
36Mbps	623ft/190m
24Mbps	919ft/280m
18Mbps	1083ft/330m
12Mbps	1247ft/380m
9Mbps	1460ft/445m
6Mps	1575ft/480m

801.11b Data Rate	Range (feet/meters)
11Mbps	1,345ft/410m
5.5Mbps	1,575ft/480m
2Mbps	1,705ft/520m
1Mbps	2,000ft/610m

Users per device — Up to 50 simultaneous users / 1,530 associated users

WIRED SPECIFICATIONS

Network Interfaces	2 - IEEE 802.3 auto-sensing 10/100BaseT Ports
RS-232	Serial port local console management

FEATURE HIGHLIGHTS

Virtual LANs – 802.1q	Dynamic 802.1x VLAN assignment Support for up to 16 VLANs
Multiple BSSIDs	Support for up to 16 SSID configurations
Inter-Client Communication Filtering (ICCF)	Support for client-to-client traffic filtering
Rogue Access Point Detection (RAPD)	Scan for and report detected APs on all channels
RADIUS Support	Remote RADIUS server and RADIUS fail-over support
Wireless Distribution System (WDS)	WDS configuration support for up to 24 wireless bridges
DHCP client	Dynamically obtain a management address
MAC Address Filtering	Build static MAC table to allow or disallow specific MAC addresses

MANAGEMENT & MIB SUPPORT

Local Management	RS-232 Serial Console Port
Remote Management	HTTPS, SSH, SNMP (v1, v2c)
MIBs	RFC 1213 RFC 1493 Bridge Generic and Enterprise Specific Traps: IEEE 802.11, IEEE 802.1x
Logging	SNMP trap support Local Syslog Remote Syslog

FILE MANAGEMENT

TFTP
SCP

SECURITY

Static and Dynamic WEP Encryption	40- and 104-bit (RC4) Encryption
WPA	802.1x – EAP-TLS, EAP-TTLS, PEAP TKIP/MIC
802.11i / WPA2	AES hardware supported

ENVIRONMENTAL SPECIFICATIONS

Dimension	26" (L) x 26" (H) x 3" (W) (66 cm x 66 cm x 7.6 cm)
Weight	33 lb. (15 kg)
Temperature	0° C to 50° C (32° F to 122° F) – Operating -40° C to 70° C – Storage
Humidity	95% non-condensing typical

CERTIFICATIONS

Radio	FCC 47 CFR Part 15, Class B Industry Canada RSS 210
Safety	CSA C22.2 No. 60950-00 UL 60950 CB Report IEC 60950 CB Report EN 60950
EMI and Susceptibility	FCC Part 15.107 & 15.109 Class B ICES-003 Class B (Canada)

WARRANTY

One year limited warranty

PACKAGE CONTENTS:
- One VT2200
- One CD-ROM containing User Guide
- One Brick-based Power Supply with Vivato High-power PoE
- One Null Modem Serial Cable
- One Shielded Cat5 Cable
- User Registration Card
- Quick Start Guide

OPTIONAL ACCESSORIES:
- Dress Cover
- Mounting Solutions

VIVATO™

BUSINESS DEVELOPMENT OFFICES
712 Fifth Ave, 45th Floor
New York, NY 10019

CORPORATE HEADQUARTERS
444 S. Cedros Ave, Ste 175
Solana Beach, CA 92075

tel 858.633.8429
fax 858.356.5692
www.vivato.com