

AP-MAX

Carrier Grade Access Point

OVERVIEW

VNL Wi-Fi Access Point provides reliable and secure high-speed Wi-Fi connections. Product is ideal for extending Wi-Fi coverage or filling in coverage holes in challenging RF environments. It provides carrier grade 802.11 b/g/n access.

Wi-Fi Access Point is available in external antenna or integrated 19 dBi antenna option. It operates on 2.4 GHz frequency band with latest technologies such as MIMO and OFDM. It features weather proof design.

Last Mile Access to provide broadband services in various solutions such as

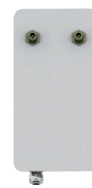
- Outdoor Rural/Semi Urban Broadband Solutions to provide broadband services in Villages, Gram Panchayat or Village Schools and other institutions.
- Public Broadband Wi-Fi Solutions to provide broadband services in cities and enterprises for mass market applications such as internet access, e-mail, file transfer etc.
- It can also be used in enterprises like offshore fields, hospitals, hotels, universities etc.
- Public safety agencies like for emergency response, where time to provide services with minimum infrastructure dependencies is the key.

BENEFITS

- **Rapid Deployment:** This solution is provided as a Plug-and-Play Solution for rapid deployment. Dismantling & redeployment of the unit is speedy as well.
- **Sensible Business Case:** The unit directly contributes to your bottom line as it offers the most cost-effective way to provide high bandwidth.
- **All-Weather Reliability:** System is outdoor capable and rugged enough to withstand extreme weather conditions. The system is maintenance free.
- **License Exempt Frequencies with Security:** The 2.4 GHz solution is regulation friendly as it operates only in the license-exempt frequency bands with secure encryption.



Access Point with 19 dBi Integrated Antenna



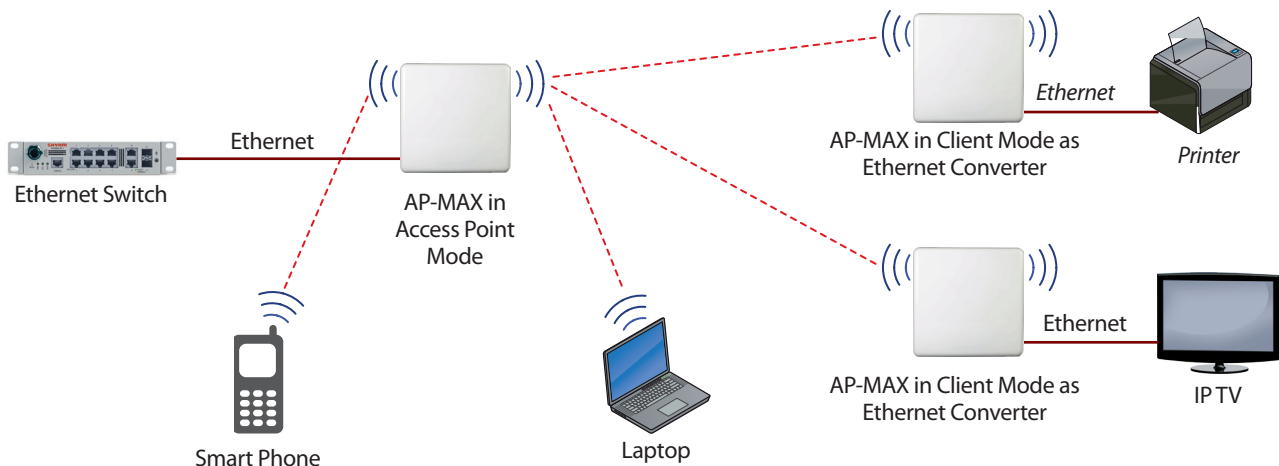
Access Point with External Antenna Option



Access Point with Out of Band Interference Rejection

HIGHLIGHTS

- Carrier Grade Performance
- Low Power Consumption
- Wireless QoS Supported Based on 802.11e WMM Specifications
- Simple Installation and Maintenance
- Multiple VAP and SSID Support
- Centralized Management using OMC
- Out of Band Interference Rejection



AP-Compact Deployment Scenario

Related Products: AP25, RM-MAX, EDS

AP-MAX

SPECIFICATIONS

RADIO & TRANSMISSION	
Radio	Access Point with 802.11 b/g/n Radio 2x2 MIMO
Radio Configuration	802.11 b/g/n
Frequency Band	2.412 GHz ~ 2.462 GHz (US & Canada), 2.412 GHz ~ 2.472 GHz (India & Europe), 2.412 GHz ~ 2.484 GHz (Japan), (1-14 Channels, Varying from Country to Country)
Channel Bandwidth	20/40 MHz
Modulation Method	OFDM: BPSK, QPSK, 16QAM, 64QAM DSSS: DBPSK, DQPSK, CCK
Data Rate	802.11n: Up to 300 Mbps 802.11g: Up to 54 Mbps 802.11b: Up to 11 Mbps

RX SPECIFICATIONS			
	IEEE Standard	Data Rate	Sensitivity in dBm
Receiver Sensitivity	802.11g	6 Mbps	-92
		24 Mbps	-86
		54 Mbps	-72
	802.11b	1 Mbps	-92
		5.5 Mbps	-92
		11 Mbps	-90
	2.4 GHz 11n HT20	MCS 0	-90
		MCS 7	-69
	2.4 GHz 11n HT40	MCS 0	-88
MCS 7		-67	

TX SPECIFICATIONS			
	IEEE Standard	Data Rate	TX Power
Max Transmit Power	802.11b	1-11 Mbps	25 dBm
		6-24 Mbps	25 dBm
	802.11g	54 Mbps	21 dBm
		2.4 GHz 11n HT20	MCS 0/8
	2.4 GHz 11n HT40	MCS 7/15	20 dBm
		2.4 GHz 11n HT40	MCS 0/8
		MCS 7/15	20 dBm

INTERFACES	
Ports	Auto-Sensing 10/100/1000 Base-T Ethernet
Antenna Port	N-Type (Only for Unit with External Antenna Option)
Integrated Antenna, Specifications	
Frequency	2.4 -2.5 GHz

INTERFACES	
Gain 2.4 GHz	19 dBi
Beam Width 2.4 GHz	20°/8° (Typical)
Polarization	Cross Polarized

PHYSICAL	
Dimensions (H x W x D)	292 x 139 x 66 mm (AP with External Antenna) 370 x 370 x 88 mm (AP with Integrated Antenna)
Weight	With Integrated Antenna: 2.5 Kg Without Antenna: 1.5 Kg
Enclosure	Outdoor, IP 66

ENVIRONMENT	
Operating Temperature Range	-10 to 55° C (14° to 131° F)
Storage Temperature Range	-40° to 70° C (-40° to 158° F)
Humidity	Up to 95% (Non-Condensing)

SECURITY	
Encryption	WEP Encryption WPA/WPA2 Personal & Enterprise
Authentication	802.1x Authenticator MAC Address Filtering

WLAN & NETWORKING	
Operation Modes	AP, Root AP, Client, Repeater
BSS	Up to 8 SSID with VLAN
Management VLAN	Supported
QoS	802.11e WMM
DHCP Server	Supported
NTP	Supported

ELECTRICAL	
Description	48 V PoE
PoE Power Consumption	Up to 12 Watts

MANAGEMENT	
Network Management	OMC, SNMP, Embedded Web Server
Firmware Upgrade	Local and Remote
Backup and Restore	Web Based Supported
System Monitoring	SysLog

No.	Model No.	Antenna	Rejection
1	APM-2400	External	No
2	APMi-2400	External	Yes
3	APM-2419	Integrated	No

CORPORATE HEADQUARTERS