

AP25

Carrier Grade Access Point



**Access Point with 19 dBi
Integrated Antenna**



**Access Point with
External Antenna Option**

HIGH CAPACITY 11n MULTI FEATURED OUTDOOR ACCESS POINT

Shyam's 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. Provides carrier grade 802.11 b/g/n access. It features a light-weight and weather proof design. Wi-Fi Access Point is available with an external antenna or integrated 19 dBi antenna. The Wi-Fi Access Point can operate on 2.4 GHz frequency. The Access Point incorporates the latest technologies such as MIMO, OFDM and Diversity bundled with Shyam's proprietary protocols. The solution ensures 24/7 connectivity with zero network downtime.

FEATURES

- **Carrier Grade Performance:** With a high data rate, Shyam's Carrier Grade Access Point ensures 24/7 connectivity with zero network downtime. The High Availability System reduces operational expenses and revenue loss due to service interruptions.
- **Rapid Deployment:** This solution is provided as a Plug-and-Play Solution for rapid deployment. Dismantling & redeployment of the unit is speedy as well.
- **Optimized Transmission Spending:** This solution helps you to control your transmission spending by avoiding the use of fiber and leased lines.
- **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:** Our 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.
- **Centralized Management:** Shyam AP is integrated with Shyam Unified Network Management Platform, thus enabling remote management from centralized location.

HIGHLIGHTS

- Carrier Grade Performance
- Very Low Power Consumption
- Long Range
- Scalable Capacity
- Flexible Architecture
- Very Fast Time to Market; Installs & Deploys in a Few Minutes
- Available in External Antenna Option
- MIMO & OFDMA Technologies
- Robust and Modular System
- Very Simple Installation and Maintenance
- Power through PoE
- Wireless QoS Supported Based on 802.11e WMM Specifications

NO.	MODEL NO.	PRODUCT DESCRIPTION
1.	AP25-1C-E	AP25, External Antenna
2.	AP25-1C-19	AP25, Integrated 19 dBi Antenna

AP25 - Carrier Grade Access Point

RADIO & TRANSMISSION

Radio	Single 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 (Europe), 2.412 GHz ~ 2.484 GHz (Japan), (1-14 Channels, Varying from Country to Country)
Channel Bandwidth	20/40MHz
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	-94
		24 Mbps	-88
		54 Mbps	-74
	802.11b	1 Mbps	-94
		5.5 Mbps	-94
		11 Mbps	-92
	2.4 GHz 11n HT20	MCS0	-92
		MCS7	-73
	2.4 GHz 11n HT40	MCS0	-90
MCS7		-71	

TX SPECIFICATIONS

	IEEE Standard	Data Rate	TX Power
Max Transmit Power	802.11b	1-11 Mbps	25 dBm
		802.11g	6-24 Mbps
	54 Mbps		21 dBm
	2.4 GHz 11n HT20	MCS0/8	23 dBm
		MCS7/15	20 dBm
	2.4 GHz 11n HT40	MCS0/8	22 dBm
MCS7/15		20 dBm	

INTERFACES

Ports	Auto-Sensing 10/100 Base-T Ethernet (IEEE 802.3/802.3u)
Antenna Connector	2 X N - Female Connectors
Integrated Antenna, Specifications	
Frequency	2.412 – 2.484 GHz
Gain 2.4 GHz	19 dBi
Beam Width 2.4 GHz	25°/8° (Typical)
Polarization	Cross Polarized

PHYSICAL

Dimensions (H x W x D)	275 x 138 x 71 mm
Weight	0.650 Kg
Enclosure	Outdoor, IP 67

ENVIRONMENT

Operating Temperature Range	-15 to 70° C (5° to 158° F)
Storage Temperature Range	-30° to 85° C (-22° to 185° F)
Humidity	Up to 95% (Non-Condensing)

SECURITY

Encryption	WEP Encryption - 64/128/152 Bit WPA/WPA2 Personal
	WPA/WPA2 Enterprise
Authentication	802.1x Authenticator MAC Address Filtering, Up to 50 Fields

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

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MINIMUM REQUIREMENTS

- Wi-Fi Client Device (IEEE802.11b/g/n)
- IE 6.0 and Firefox 3.0

PACKAGE CONTENTS

- PoE Adapter 24 V
- Jumper Cable, LMR600
- Antenna (Integrated, Omni, Sector)
- Quick Start Guide

ELECTRICAL

Description	24 to 48 V PoE
PoE Power Consumption	Up to 15 Watts

MANAGEMENT

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

ABOUT SHYAM NETWORKS (A DIVISION OF VNL)

Shyam Networks provides state-of-the-art networking and security solutions for diverse corporate enterprises, governments, educational institutions, offices and residences. From high end enterprise network solutions and wireless broadband connectivity to simple broadband access for homes, we ensure speed, capacity and range for both outdoor and indoor applications. We understand your networking needs as they evolve in a dynamic environment and manage them with cost effective, innovative answers.

Shyam Networks offers end-to-end solutions for homeland security, industrial security, and mission critical, sensitive sectors. We also offer a range of products that bring you an enhanced internet experience, in dense urban locations or remote rural areas where power and infrastructure are unreliable. Shyam Networks has networking solutions to connect subscribers in even the most challenging environments.

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