



AP1200 Range with MESH

SIL AP1200 SIL AP1200-90 SIL AP1200-360

2.4GHz & 5.8GHz

Dual Band Access Points



SIL AP1200 Dual band AP with external antennas



SIL AP1200-90 Dual band AP with integrated 90° antenna



SIL AP1200-360

Dual band AP with integrated 360° antenna

OVERVIEW

The AP1200 is a highly secure dual frequency Wi-Fi solution. Enhanced features including MIMO spatial multiplexing and ultrafast radio speeds make the AP1200 range ideally suited for networks where stable long range Wi-Fi is required.

The AP1200 range has capabilities of up to 240Mbps Duplex on 802.11n 2.4GHz and up to 500Mbps Duplex on 802.11ac 5GHz (1200Mbps real throughput) frequencies simultaneously.

Features

- Up to **1.2Gbps** data rates
- Built in 360° Omni or 90° Sector
- External Omni or Sector Antenna
- Rugged case design for outdoor applications
- AES Encryption up to 256bit
- MIMO with Spatial Multiplexing
- DFS (Dynamic Frequency Selection)
- TPC (Transmit Power Control)
- PoE 802.3af
- SNMP
- WEB Management
- Surge protected radio and PSU
- Rugged mounting brackets
- SilverView Network Management Software
- 2 Year warranty

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Technical Specifications

AP1200 Range	SIL AP1200-360 (Outdoor Radio with Built in 360° Omni Antenna)	SIL AP1200-90 (Outdoor Radio Built in 90° Sector Antenna)	SIL AP1200 (Multipoint Single Radio)								
Radio Specification											
Transmission rate	11ac: Up to 867Mbps, 11n: Up to 300Mbps, 11a/b/g Backwards Compatible										
МІМО		2x2 Spatial Multiplexed Streams									
Modulation		HT-OFDM with BPSK,QPSK, 16QAM, 64QAM, 256QAM									
Standards	IEEE802.11ac, IEEE802.11n, IEEE802.11a										
Channel Size		5MHz, 10MHz, 20MHz, 20/40/80MHz									
Channel (Country Dependent)	USA (FCC): 5.15GHz - 5.825GHz Europe (ETSI): 5.47GHz - 5.850GHz USA (FCC): 2.412GHz - 2.462GHz Europe (ETSI): 2.412GHz - 2.472GHz UK Band B: 5.47GHz - 5.725GHz UK Band C: 5.725GHz										
Operating frequency	2.412GHz – 2.472GHz 5.1GHz - 5.8GHz										
RF output power	Up to 26dBm from ports										
Sensitivity	-82dBm@54Mbps, -74dBm@300Mbps, -72dBm@867Mbps, -68dBm@1.3Gbps										
Operating Mode	AP, Station, Mesh and Bridge										
Antenna	4 x 360° x 45° Omni Antennas (Built in)	2 x 90° x 15° Sector Antennas (Built in)	4 x Ntype female Sockets (H+V) Optional – 120/90 Sector antenna or 12dBi Dual polarised Omni								
:	Security - Network										
802.1x, Radius, QoS, Vlan	Supports 802.1x Client and Server and Suppo	orts Radius Client, 802.11i, Asymmetric Bandwidth Control, 802.	Q: Management, trunk, access and transparent mode								
١	Electrical – Interface										
LAN/WAN		10/100/1000BASE-T(RJ-45) LAN Port (with Auto MDI/MD	IX)								
Power	6 watts (typical), 16 watts (max) DC 24~48 (48~56) Volt or POE (included in kit 100-240vac)										
Surge Protection		15KV									
ı	Management										
Remote Connection		Web, Telnet, ssh, SilverView Monitoring									
SNMP		SNMP V2									
Firmware	Upgradeable via web										
ı	Physical										
Dimensions and Weight	Unpacked radio 18 x 18 x 25 (cm) 2Kg	Unpacked radio 45 x 17 x 6.5 (cm) 2.3Kg	Unpacked radio 22 x 22 x 7.5 (cm) 1.6Kg								
Dust and Waterproof	IP66 Certified	IP67 (Certified								
Mounting Bracket	Steel Bracket (included in kit) 3 Axis Magnesium alloy, wall or pole mount (included in kit) (optional)										
	Environment										
Operating Temperature		-20~70°C (Storage -40~90°C)									
Humidity	0~95 % (non-condensing)										
Other											
Warranty	2 Year Parts and labour (extendable to 5 Years)										
МТВБ		60000 Hrs									
Pack Contents	1x Radios, 1 x POE injector, 1 x Basic Mounting bracket set	1x Radio, 1 x POE injector, 1 x Mounting bracket set	1x Radio, 1 x POE injector, 1 x Mounting bracket set								



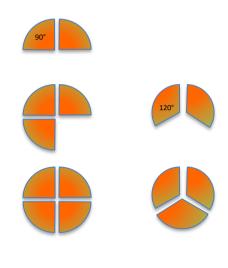
Antenna Examples

Point to Multipoint

Beam Patterns

90° Sector ≤ 5km 360° Omni ≤ 3km 120° Sector ≤ 5km

Antenna System Options



NOTES:

The AP 1200 can be fitted with either;

- External 12dBi Omni Antenna (≤3km)
- External 16/20dBi 90°/120° Sector Antenna (≤5km)

The AP 1200-90 has a built in 90° Sector Antenna (≤5km)

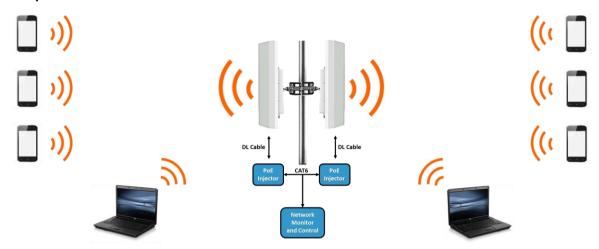
The AP 1200-360 has built in 360° 5/7dBi Omni antennas (≤500m)

SILVERNET

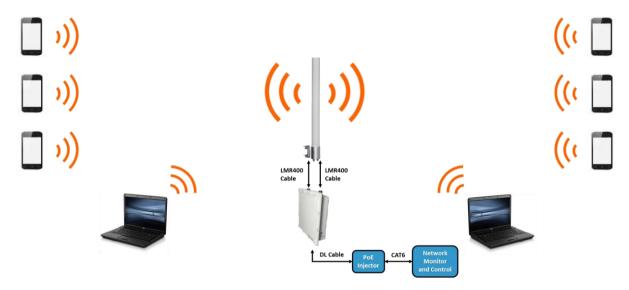
WIRELESS-NETWORK-SOLUTIONS

Wi-Fi

AP1200-90 with multiple devices connected



AP1200 and external omni with multiple devices connected



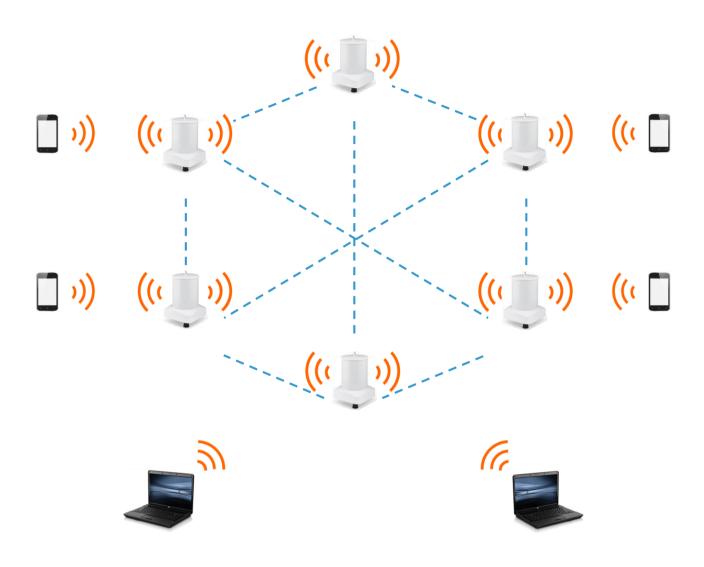
AP1200

Part Code	Description	
SIL AP1200	Dual band Access Point, up to 500Mbps on 5GHz and 240Mbps on 2.4GHz, with 4 x Ntype connectors for external antenna.	
SIL AP1200-90	Dual band Access Point, up to 500Mbps on 5GHz and 240Mbps on 2.4GHz, with built in dual polarised 90° sector antenna.	



Wi-Fi with MESH

AP1200-360 in MESH mode



AP1200

Part Code	Description
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Dual band Access Point, up to 500Mbps on 5GHz and 240Mbps on 2.4GHz, with built in dual polarised 360° Omni antenna.



Pro Range Antennas



	5GHz			2.4GHz		
	SAN5819-120	SAN5820-90	OAN5812	SAN2415-120	SAN2417-90	OAN2412
Frequency	4.9-6.0GHz	4.9-6.0GHz	4.9-6.0GHz	2.3-2.7GHz	2.3-2.7GHz	2.3-2.7GHz
Gain	19dBi	20dBi	12dBi	15dBi	17dBi	12dBi
Horizontal Beamwidth	120°(6dB)	90°(6dB)	360°	120°(6dB)	90°(6dB)	360°
Vertical Beamwidth	4°	4°	7°	8°	8°	7°
Max VSWR	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
F/B Ratio	>25dB	>25dB	N/A	>25dB	>25dB	N/A
Wind Loading	150 mph					
Polarisation	Dual Polarisation	Dual Polarisation	Dual Polarisation	Dual Polarisation	Dual Polarisation	Dual Polarisation
Connectors	2*N-type Female	2*N-type Female	2*N-type Female	2*N-type Female	2*N-type Female	2*N-type Female
Dimensions (mm)	700*133*57	700*133*57	590*110*73	700*133*57	700*133*57	1200*110*73
Weight (kg)	2.1	2.1	1.8	2.1	2.1	3.6
Certification	CE, RoHS					