



2.45GHz WiFi CPE

2.4-2.5GHz

Product code: WLAN-A0040



The CPE is conveniently designed to take full advantage of the 802.11g standard while maintaining backward compatibility with huge installed base of 802.11b(WiFi) devices. The onboard outdoor hardened electronics offers a variety of nifty features like 802.1x authentication, WEP, WPA support and web-based configuration for the installer.

This device, provided with a 20m CAT5 cable can be easily configured to operate as an Access point or CPE offering data rates of up to 108Mbps.

The onboard antenna, a 14dBi directional panel antenna, is well matched within the band and offers low side lobes and can achieve typical ranges in excess of 10km.

Application:

- ✓ Outdoor / indoor access point for wireless LAN or WiFi clients
- ✓ Outdoor / indoor client for wireless LAN or WiFi access points or hot-spots



Specifications:

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20m CAT5 with RJ45 connector

Antenna:

Gain (max)	15.5 dBi (+-0.5 dB)
Gain (min over the band)	14 dBi (+-0.5 dB)
Frequency	2400 - 2500 MHz
VSWR	< 2.0:1
Feed power handling	10 W
E-plane 3 dB beamwidth	43° (± 5°)
H-plane 3 dB beamwidth	43° (± 5°)
Front to back (F/B ratio)	23 dB (± 3 dB)
Nominal input impedance	50 Ohm
Polarisation	Linear (Vertical or Horizontal)

Electronics:

Type	802.11b/g compliant
Output RF Power	19 dBm
Nominal data rate	54/108 Mb/s (Turbo)
Modulation	OFDM, CCK, DQPSK, DBPSK
Sensitivity (excl antenna)	-68dBm (54 Mb/s) -75dBm (36 Mb/s) -82dBm (11 Mb/s) -85dBm (5.5 Mb/s) -89dBm (1 Mb/s)
Visual display indicators	LAN/PWR and WLAN
Power over Ethernet	Yes (48V protected)
Security	WEP (up to 152bit) WPA(PSK, TKIP) Mac address filtering 802.1X auth (EAP-TLS)
Management	Web interface Telnet Firmware upgradeable
Power consumption	5.5W (max)
Other Features	Channel Smart-select Site survey Antenna alignm. Tool Transmit power control Auto-MDIX

Environmental:

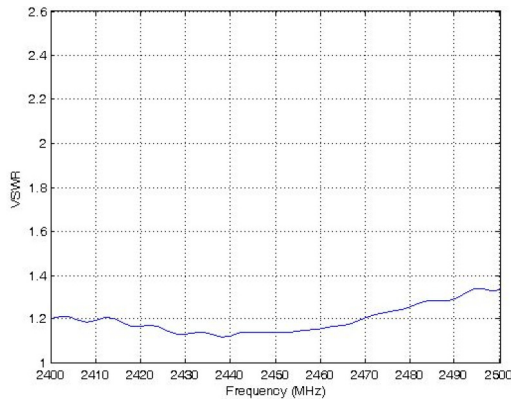
Wind Loading	160 km/h
Temperature Range	- 20° C to +70° C
Shock	40G at 10 msec
Thermal Shock	- 20° C to +70° C : 10 cycles
Water Ingress Rating	IP66 (NEMA 4X)

Mechanical:

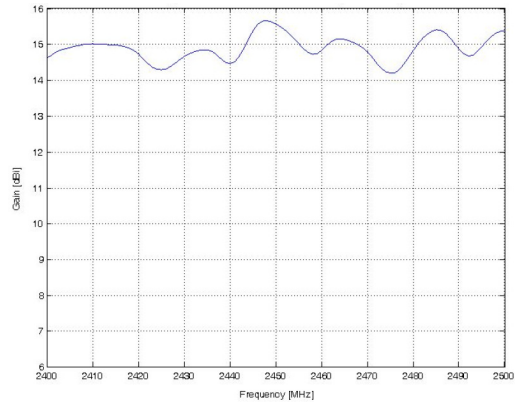
Dimensions (l x w x d)	245 mm x 235 mm x 40 mm
Weight	780 g (approx.)
Mounting	Stainless steel brackets for up to 50 mm poles



VSWR and Gain Pattern:

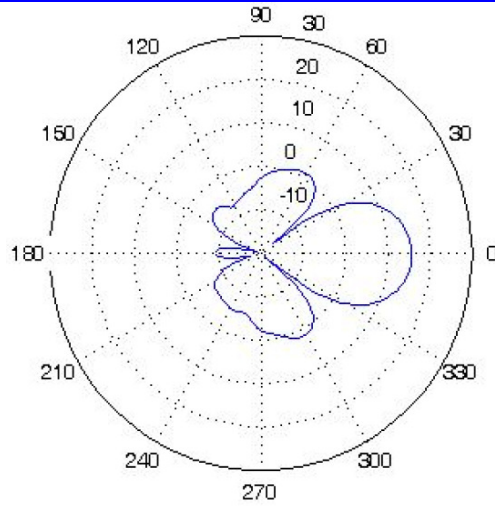


VSWR

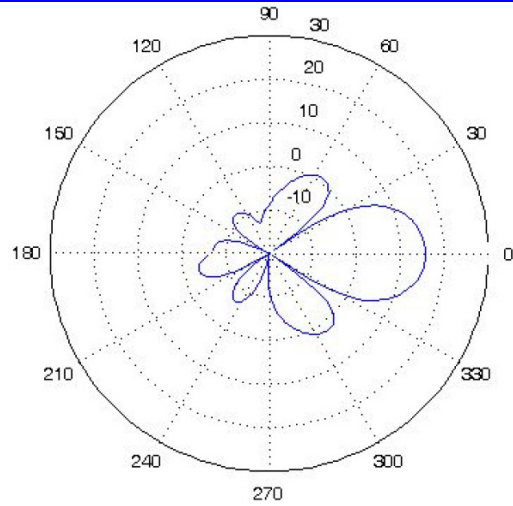


Gain

Radiation Patterns



E-Plane



H-Plane