

APT-24-11 NITRO II – Accesspoint 2x2 MIMO AP

The Nitro II APT-24-11 is a High Capacity AP unit, to provide short range end-user access at a favorable price.

The Nitro II is developed for outdoor environment and includes an integrated dual-polarity 11 dBi antenna unit. With its OFDM and Mimo technology the products have improved nLos capabilities and can operate in nLos environment.



NITRO II System Description

The Nitro II is equipped with 24V POE power feed for up to 50 meters of CAT5 cable - for convenient and secure installation. The mounting kit allows for both wall and pole installation, with azimuth and elevation control. The Nitro II complies with IEC/IP65 water tightness, and eliminates all sensitive external RF-cabling for maximum durability.

Pole Mount

Nylon strips

Radio Specifications

The Nitro II radio port is based on state of the art High Power/High Sensitivity radio on a chip (ROC) RF component:

Standard Frequencies (802.11n):

2.412 – 2.484 GHz

Modulation technique

802.11N with 2 x 2 MIMO OFDM. Selectable channel bandwidth of 2x20 MHz (HT40), 20 MHz (HT20), 10 MHz (HT10) and 5 MHz (HT5).

System Security : WPA version 1 & 2 with AES and TKIP, WEP, IEEE802.1x

RF Output Power (included antenna amplification) EIRP:

1w or Selectable for regulatory domain

Operation Mode Bridge mode, router mode, NAT mode with DHCP client, PPPoE and static WAN. Static or DHCP server for LAN

Transfer Data Rate (Link Speed)

Up to 300 Mbps (link/air speed).

Supported Link rates:

MIMO Rates – 802.11n	Legacy 802.11 a/g
MCS 15 – 300 Mbps	54 Mbps
MCS 14 – 270 Mbps	48 Mbps
MCS 13 – 240 Mbps	36 Mbps
MCS 12 – 180 Mbps	24 Mbps
MCS 11 – 120 Mbps	18 Mbps
MCS 10 – 90 Mbps	12 Mbps
MCS 9 – 60 Mbps	9 Mbps
MCS 8 – 30 Mbps	6 Mbps
MCS 7 – 150 Mbps	
MCS 6 – 135 Mbps	
MCS 5 – 120 Mbps	
MCS 4 – 90 Mbps	
MCS 3 – 60 Mbps	
MCS 2 – 45 Mbps	
MCS 1 – 30 Mbps	
MCS 0 – 15 Mbps	

Specification

Unit Size	223 x 123 x 60 mm (housing)
Integrated Antenna	11 dBi 2,4GHz Band, Linear (V&H) polarization & (H/V) 30x20 degrees beam with (at -3dBm)
Radio mode	Bride mode, router mode, NAT mode
Weight	0,5Kg
External Connectors	Weather sealed RJ45
Enclosure Material	Plastic
Fasteners	Plastic strips
Heat Dissipation	10W max
External Color	White
Mounting	Pole mount
AZ/EL control	AZ only
Pole Size	15-35mm Ø
Temperature	-20°C to 70°C
Humidity	100%
Water Tightness	IP65
Wind Load (Survival)	Operational: 160 Kmph (220 Kmph)
Power source	24V POE (kit Included) - for up to 50 meter cable.