level one

OAN-2150
WAN-2180

Enhanced Antenna for Wireless Devices

User Manual

OAN-2150   15dBi Omni-Directional Outdoor Antenna

Electrical Specification

Frequency range	2400 MHz – 2500 MHz
Gain	14.5±0.5 dBi
VSWR	1.8 : 1 Max.
Polarization	Linear, vertical
HPBW / horizontal	360°
HPBW / vertical	15°
Downtilt	0˚
Power handling	20 W (cw)
Impedance	50 Ω
Connector	N female

Environmental & Mechanical

Characteristics

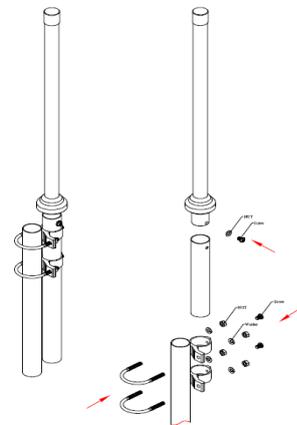|	
Survival wind speed	216 km/hr
Temperature	-40℃ to +80℃
Humidity	100% @ 25℃
Lightning protection	DC ground
Radome material	Fiberglass
Weight	1.8 kg
Dimensions	H1860mm * D51mm
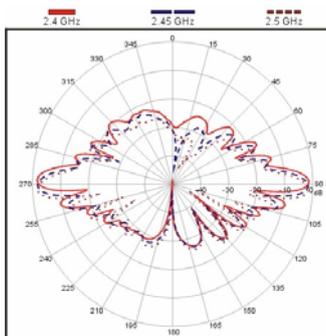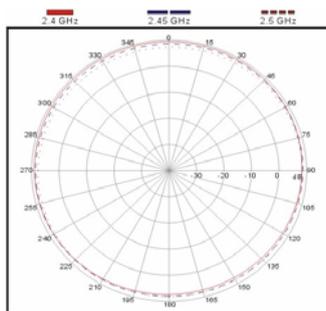
Package content:

OAN-2150
Mounting Kit
CLF400 3M Cable
CLF200 1.5M Cable
Surge Protector

Installation:

Step 1   Mount OAN-2150 on a pole or wall.

Pole Mounting

Step 2   Connect outdoor low loss extension cable (with N male connector) to OAN-2150. Water resistant of connector can be ensured with a waterproof tape. (optional)

Step 3   To protect your wireless device, attach a surge protector to the other side of the low loss extension cable.

Step 4   Connect surge protector to your wireless device. Use an adapter if the connector of surge protect is different from your wireless device RF connector.

Antenna   Outdoor low loss extension cable   Surge protector

Wireless device   Adapter
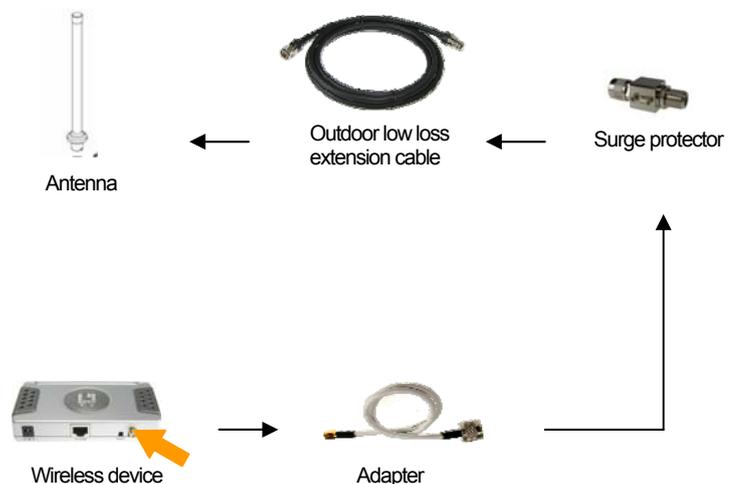
WAN-2180   18dBi Directional Panel Outdoor Antenna

Electrical Specification

Frequency range	2400 MHz – 2500 MHz
Gain	18 dBi
VSWR	$\leq$ 1.5.
Polarization	Linear, vertical
HPBW / horizontal	17°
HPBW / vertical	17°
Front to back ratio	20 dB
Power handling	30 W (cw)
Impedance	50 Ω
Connector	N female

Environmental & Mechanical Characteristics

Survival wind speed	216 km/hr
Temperature	-2 0℃ to +80℃
Humidity	95% @ 55℃
Lightning protection	DC ground
Radome material	ABS Grey
Weight	800g
Dimensions	365×365mm

Far-field amplitude of steven-an-1h12.nsi

Far-field amplitude of steven-an-1h13.nsi

Package content:

WAN-2180
Mounting Kit
CLF400 3M Cable
CLF200 1.5M Cable
Surge Protector

Installation:

Step 1   Screw the L type mounting base at rear of the panel antenna
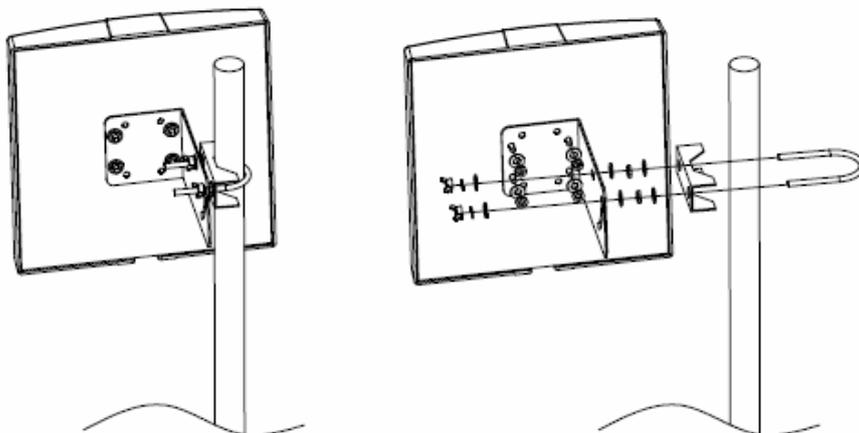
Step 2   Mount the panel antenna with the pole by using U shape grip

Step 3   Connect outdoor low loss extension cable (with N male connector) to WAN-2180. Water resistant of connector can be ensured with a waterproof tape. (optional)

Step 4   To protect your wireless device, attach a surge protector to the other side of the low loss extension cable.

Step 5   Connect surge protector to your wireless device. Use an adapter if the connector of surge protect is different from your wireless device RF connector.

Antenna   Outdoor low loss extension cable   Surge protector

Wireless device   Adapter