
B Hojas de Especificaciones

Moxa NPort W2150

WLAN

Standard Compliance: IEEE802.11b

Spread Spectrum Technology: DSSS

Tx Power: 15 dBm $\pm$ 2 (CH1-Ch13), 12dBm $\pm$ 2 (CH14)

Rx Sensitivity:

-91 dBm @ 1 Mbps

-89 dBm @ 2 Mbps

-87 dBm @ 5.5 Mbps

-84 dBm @ 11 Mbps

Transmission Rate: 11 Mbps (max.) with auto fallback (11, 5.5, 2, 1 Mbps)

Security: WEP 64-bit/128-bit data encryption

Antenna Connector: Reverse SMA

Network Mode: Infrastructure mode, Ad-Hoc mode

LAN

Ethernet: 10/100 Mbps, RJ45, Auto MDI/MDIX

Protection: Built-in 1.5 KV magnetic isolation

Serial

No. of ports: 2 ports (NPort W2250), 1 port (NPort W2150)

Interface: RS-232/422/485, 8-pin RJ45 with 15 KV ESD for all Signals

Serial Communication Parameters

Parity: None, Even, Odd, Space, Mark

Data bits: 5, 6, 7, 8

Stop bits: 1, 1.5, 2

Flow control: RTS/CTS, XON/XOFF

Speed: 110 bps to 230.4 Kbps

Console Ports: Ethernet x 1, RS-232 console x 1 (Port 1)

Software Features

Protocols: ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP

Utilities: NPort Search Utility & NPort Windows Driver manager for Windows 95/98/ME/NT/2000/XP/2003

OS Driver Support:

Windows 95/98/ME/NT/2000/XP/2003/XP x64/2003 x64 COM driver, Linux real TTY driver, SCO Unix, SCO OpenServer 5, UnixWare 7, UnixWare 2.1.x, SVR4.2

Configuration: Web/Serial/Telnet console, or Windows utility

Power Requirements

Power input: 12 to 48 VDC

Power consumption: 250 mA @ 12V, 138 mA @ 24V

Mechanical Specifications

Material: Aluminium sheet metal (1 mm)

Dimensions

Body: 77 x 111 x 26 mm (without ears or antenna)

Body: 100 x 111 x 26 mm (without antenna)

Antenna: 109 mm

Environmental

Operating Temperature: 0 to 55°C (32 to 131°F), 5 to 95% RH

Storage Temperature: -20 to 85°C (-4 to 185°F), 5 to 95% RH

Regulatory Approvals

EMC:

CE: EN55022 Class A/EN55024, ETSI EN 301 489-17, ETSI EN 301 489-1
FCC: FCC Part 17 Subpart B, Class A
FCC Part 15 Subpart B, Class A

Safety:

UL: UL60950-1

TÜV: EN60950-1

DSPR : ARIB-STD 33, ARIB-STD 66

Senao / Engenius NET-EL-NOC-3220EXT

Data Rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

Standards

IEEE802.11b/g, IEEE802.1x, IEEE802.3, IEEE802.3u

Compatibility

IEEE 802.11g/ IEEE 802.11b

Power Requirements

Active Ethernet (802.3af) – 48 VDC/0.35A

Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE

RF Information

Frequency Band

2.400~2.4835 GHz (US, EU)

2.400~2.484 GHz (JP)

Media Access Protocol

Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

Modulation Technology

Orthogonal Frequency Division

Multiplexing (OFDM)

DBPSK @ 1Mbps

DQPSK @ 2Mbps

CCK @ 5.5 & 11Mbps

BPSK @ 6 and 9 Mbps

QPSK @ 12 and 18 Mbps

16-QAM @ 24 and 36 Mbps

64-QAM @ 48 and 54 Mbps

Operating Channels

11 for North America, 14 for Japan, 13 for Europe.

Receive Sensitivity for 802.11b

-94dBm @ 1Mbps

-92dBm @ 2Mbps

-89dBm @ 5.5Mbps

-86dBm @ 11Mbps

Receive Sensitivity for 802.11g

-92dBm @ 6Mbps

-90dBm @ 9Mbps

-88dBm @ 12Mbps

-86dBm @ 18Mbps

-83dBm @ 24Mbps

-79dBm @ 36Mbps

-74dBm @ 48Mbps

-72dBm @ 54Mbps

Available transmit power for 802.11b

24dBm @ 1,2,5.5 & 11Mbps

Available transmit power for 802.11g

23dBm @ 6,9,12 & 18Mbps

22dBm @ 24 & 36Mbps

21dBm @ 48 & 54Mbps

Antenna

5dBi External (Dipole)

RF Connector

rSMA Type

Networking

Topology

Ad-Hoc, Infrastructure

Operation Mode

Point-to-Point/ Point-to-Multipoint Bridge/ AP/ Client Bridge/ WDS

Interface

One 10/100Mbps RJ-45 LAN Port

Security

IEEE802.1x authenticator / RADIUS client (EAP-MD5/TLS/TTLS) support in AP mode WPA2/WPA / Pre Share KEY (PSK)/ AES/TKIP

MAC address filtering

Hide SSID in beacons

IP Auto-configuration

DHCP client/server

Management

Configuration

Web-based configuration (HTTP)

Firmware Upgrade

Upgrade firmware via web-browser

Serial Interface (RS-232)

Physical

Dimensions

163.8(L)mm * 135.2(W)mm * 47.0(H)mm

Weight

1.2 Kg (2.6 lbs)

Environmental

Temperature Range

Operating: -20°C to 60°C (-4°F to 140°F)

Storage: -40°C to 80°C (-40°F to 176°F)

Humidity (non-condensing)

5%~95% Typical

Package Contents

Outdoor Wireless Client Bridge unit

48V, 0.375A AC/DC adapter with wallplug power code

Inline Power Injector (PoE)

1.8m Grounding Cable

User's manual CD-ROM

Wall mounting kit

Mast mounting kit

Waterproof kit

Stella Doradus SD27 2.4 GHz Parabolic

• Especificaciones

Electrical Specification

Gain 24dBi
Bandwidth 2.4-2.485 GHz
3dB beam Pattern $8^\circ \times 8^\circ$
VSWR 1.4 : 1
Front to Back Ratio 29dB
Cross Polar Ratio 34dB
Polarization horizontal / vertical
Power Rating 50W
Impedance 50 ohms
Termination N-Male pigtail

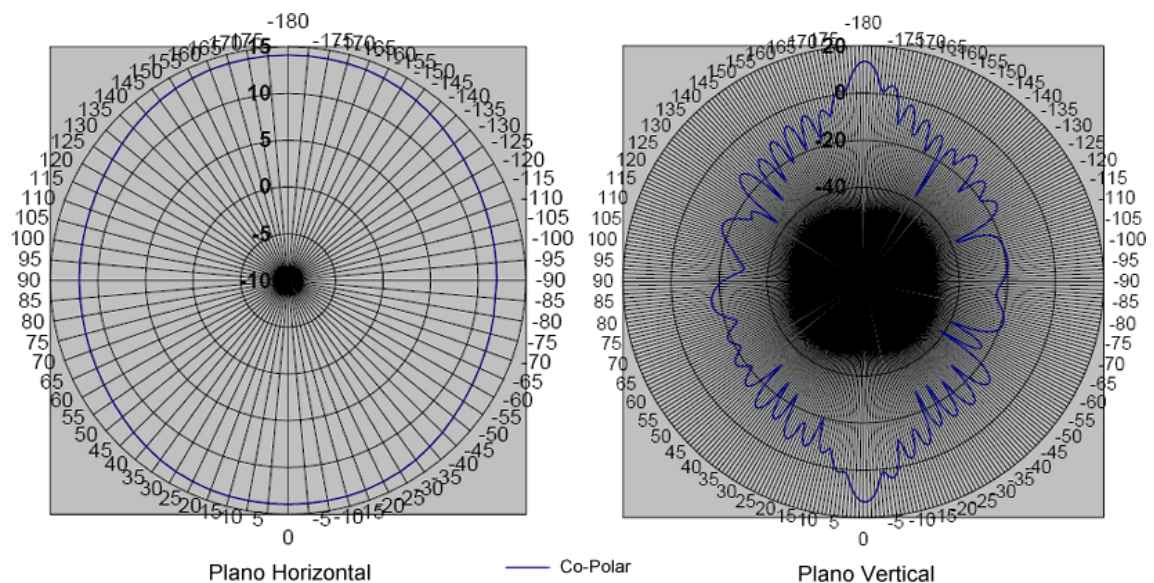
Mechanical Specifications

Length 91cm
Width 91cm
Weight 4.2kg
Windage(at 216kmph) 591 N
Mechanical Tilt 0-25 degrees
Mounting Pipe 5 cm pipe

Materials

Radiating Element Copper Dipole
Radome (feed) ABS Black
Clamps HDG steel + galvanised steel bolts

• Diagramas de Radiación



Stella Doradus 13dBi 2.4 GHz Omnidirectional

• Especificaciones

Electrical Specification

Gain 13dBi
Bandwidth 2.4-2.485GHz
VSWR 1 : 1.8
Polarization vertical
Power Rating 50W
Elevation Beamwidth 5 degrees
Cross Pol. Discrimination 26dB min
Impedance 50 ohms
Termination Fixed N- female

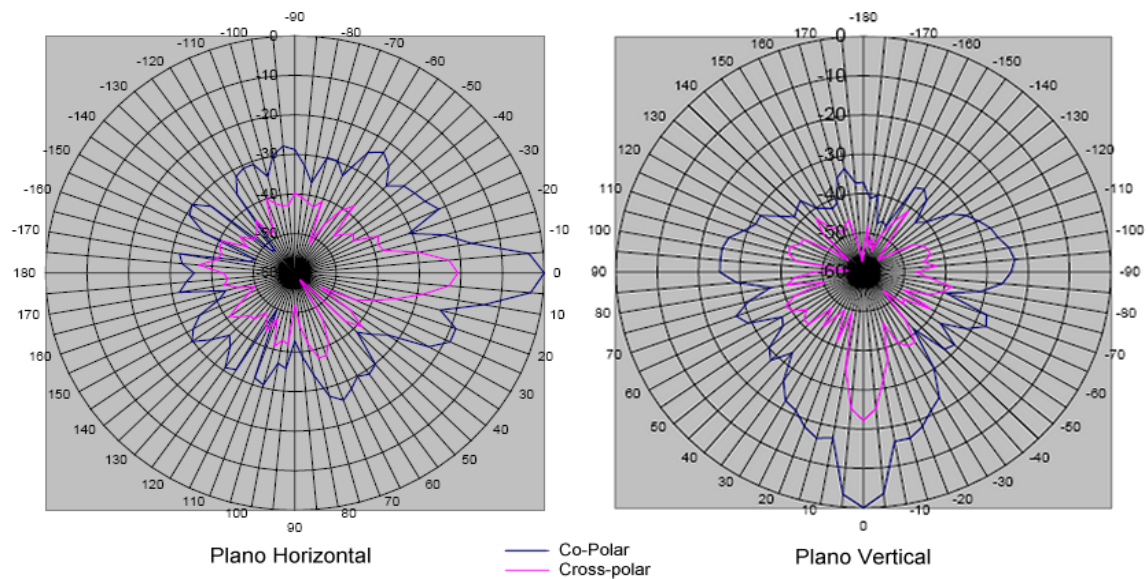
Mechanical Specifications

Length 169cm
Diameter 7.2cm
Weight 3.1kg incl. Brackets
Windage (at 215km/h) 35kg
Mounting Pipe 5 cm pipe

Materials

Radiating Elements Copper co-linear array
Radome PVC white or grey
Clamps HDG steel + Stainless Steel Bolts

• Diagramas de Radiación



Stella Doradus SD 3015 Base Station

• Especificaciones

Electrical Specification

Gain 18dBi
Bandwidth 2.4-2.485GHz
3dB beam Pattern 30° x 15°
VSWR 1.8 : 1
Front to Back Ratio 27dB
Polarization vertical
Power Rating 50W
Cross Pol. Discrimination 22dB min
Impedance 50 ohms
Termination Fixed N- female

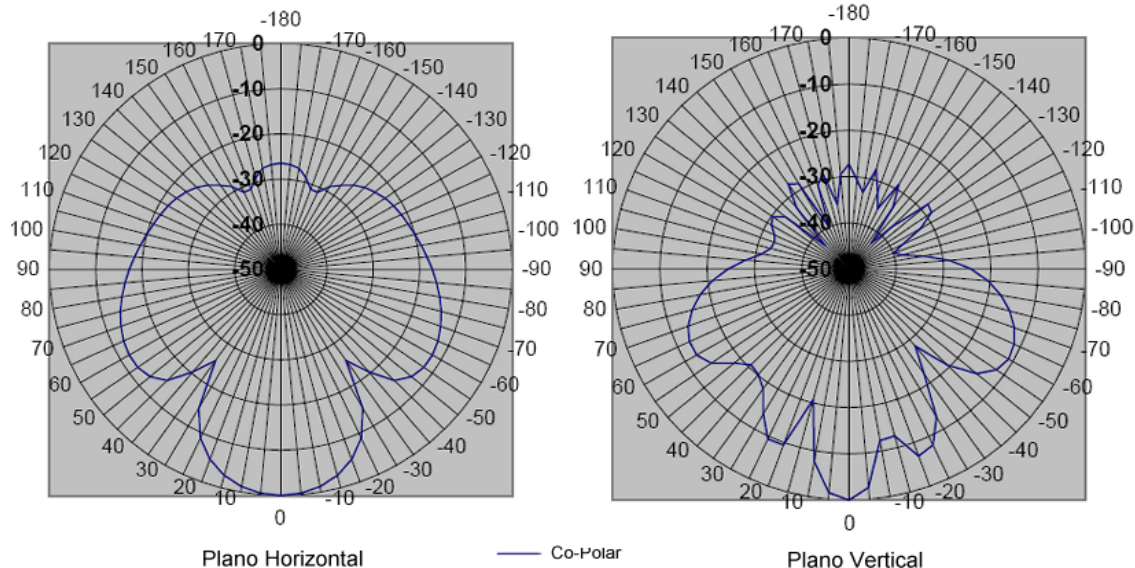
Mechanical Specifications

Length 50cm
Width 22cm
Depth 4cm
Weight 1kg
Windage (at 215km/h) 24kg
Mounting Pipe 5 cm pipe

Materials

Radiating Elements Beam PCB patch array
Radome ABS grey
Clamps HDG steel + Galvanised Steel Bolts

• Diagramas de Radiación



Stella Doradus SD 12015 Base Station

• Especificaciones

Electrical Specification

Gain 12dBi
Bandwidth 2.4-2.485GHz
3dB beam Pattern 120° x 15°
VSWR 1.8 : 1
Front to Back Ratio 40dB
Polarization vertical
Power Rating 50W
Cross Pol. Discrimination 22dB min
Impedance 50 ohms
Termination Fixed N- female

Mechanical Specifications

Length 43,5cm
Width 22,5cm
Depth 7,5cm
Weight 1,03kg
Windage (at 215km/h) 28kg
Mounting Pipe 5 cm pipe

Materials

Radiating Elements Beam PCB patch array
Radome ABS grey
Clamps HDG steel + Galvanised Steel Bolts

• Diagramas de Radiación

