



Netbridge Airjet 5S-20 Plus

High-performance 5 GHz subscriber unit

Available models

Netbridge Airjet 5S-20 Plus



Subscriber unit with an integrated directional 20 dBi antenna.

Incredible performance

Netbridge series point to multipoint system delivers 600+ Mbps throughput via its unique and powerful RF design that supports up to 256QAM modulation and 30 dBm output power. 720 MHz dedicated CPU ensures swift data processing and high packet per second rate (PPS) which is important for real time data transmission applications. Gigabit Ethernet port supporting 802.3af/at standard allows powering the devices with PoE switches. Weatherproof IP-67 standard rated enclosure design allows using the equipment in any climate conditions.

600

The full featured operating system makes Netbridge devices ideal not only for WISPs and operators, but also for security, enterprise or industrial applications. Proprietary data transmission protocol (W-Jet V) ensures smooth performance even in noisy areas at the same time delivering high capacity, low latency and high packet per second rate. QoS (quality of service) mechanism allows prioritizing mission critical data and efficiently transmitting voice, video or other real time data over the wireless network. Essential tools like spectrum analyzer, site survey, antenna alignment and others are included.

Easy pre-configuration and maintenance

A new approach to setting up and maintaining your network

Setup Wizard

Guides the installer through the important steps of the set-up process.

Single side configuration

Link parameters are automatically applied to subscriber units once set on the base-station side.

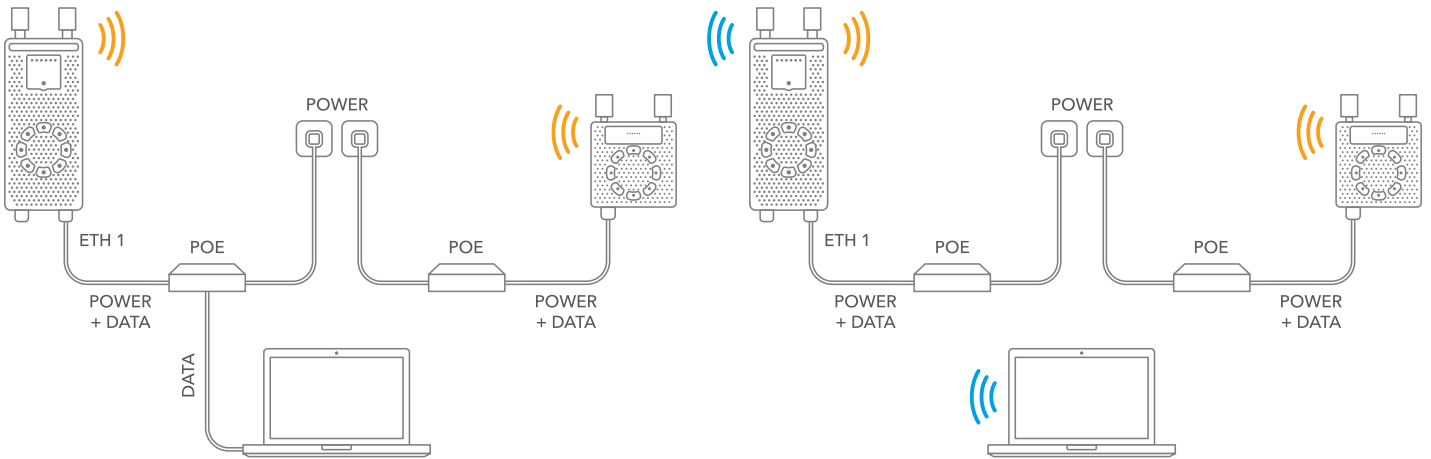
Spectrum analyzer

Demonstrates the current noise floor in a waveform and waterfall graphs.

Pre-configuration

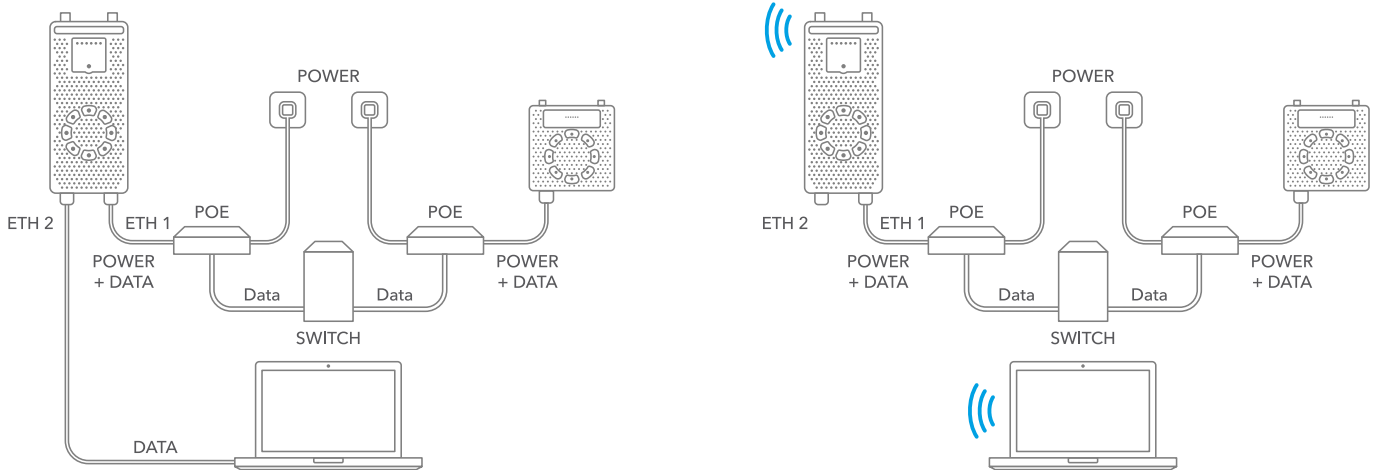
Multiple options to pre-configure Netbridge devices are displayed in the scheme below. Devices can be connected with each other using wired or wireless connectivity. End-user device can also connect to the Netbridge device using 2.4 GHz access radio or using wire to the Ethernet port of the Airjet device. Airjet devices can be discovered using Bonjour, CDP and SSDP protocols as well.

Wireless



**Multiple Netbridge Airjet Plus units can be connected to the Netbridge*

Wired



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Radio

Wireless protocol	W-Jet V
Radio mode	MIMO 2x2
Frequency range	4.900 - 6.100 GHz (FCC: 4.940 - 4.990 GHz, 5.150-5.250 GHz, 5.725-5.850 GHz)
Channel size	5, 10, 20, 40, 80 MHz
Modulation schemes	OFDM (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Data rates @ 80 MHz	866, 780, 650, 585, 520, 390, 260, 195, 130, 65 Mbps
Duplexing scheme	TDD
Error correction	BCC, LDPC

Modulation, Mbps	866	780	650	585	520	390	260	195	130	65
TX Power, dBm	24	25	25	26	27	28	28	29	29	30
Receive sensitivity, dBm	-64	-66	-70	-72	-74	-78	-81	-85	-88	-90

Antenna

Netbridge Airjet 5S-20 Plus	Integrated directional dual-pol 20 dBi antenna
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Wired

Interface	10/100/1000 Base-T with PoE IN (RJ45)
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Physical

Dimensions without mount: Netbridge Airjet 5S-20 Plus	Length 198 mm (7.7"), width 198 mm (7.7"), height 50.5 mm (1.9")
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Mount length till pole	130 mm (5.1")
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Weight including mount: Netbridge Airjet 5S-20 Plus	2.00 kg (4.4 lb)
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Power

Power input method, voltage	PoE 802.3af, isolated 42 - 57 VDC
Power consumption (max)	10 W
PoE included	

Environmental

Operating temperature	-40°C (-40 F) ~ +65°C (+149 F)
Humidity	0 ~ 90 % (non-condensing)

Software features

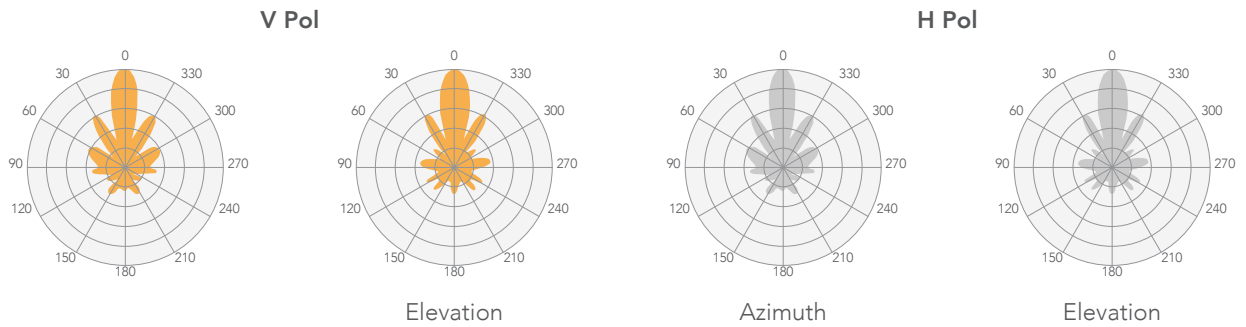
- Smart Auto-channel
- Robust data security
- QoS with hardware acceleration
- Spectrum analyzer
- Dual firmware image
- Client device is controlled via Base Station

Regulatory

Certification	FCC/IC/CE
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Antenna specifications

Netbridge Airjet 5S-20 Plus



Internal antenna

Model name	Netbridge Airjet 5S-20 Plus
Frequency range	5.1 - 5.9 GHz
Gain	20 dBi
Polarization	Dual linear
Cross-pol Isolation	27 dBi
VSWR	<1.8
Azimuth beamwidth (H pol)	16 deg
Azimuth beamwidth (V pol)	16 deg
Elevation beamwidth	16 deg

