

5GHz 300Mbps High Power Outdoor Wireless Base Station

- 2*2 MIMO with TDMA
- Protocol
- 19 dBi 120 degree dual-polarized antenna
- Outdoor robust industry design
- Flexible Passive PoE
- Compliant with 802.11a/n
- Easy mounting and tilt adjustment
- IP67 weatherproof die-cast housing



BSU5800 is a 300 Mbps 2x2 MIMO high power outdoor wireless base station based on 802.11a/n technology. It features an industry die-cast IP67 design that is high-performance, cost-effective, and dedicated to long-distance wireless network solutions.

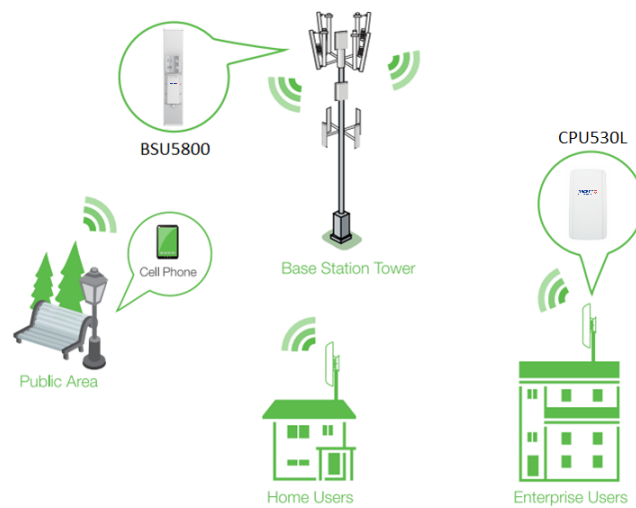
Featuring TDMA technology, BSU5800 provides access to more wireless users than legacy WiFi technology and greatly improves network scalability in terms of throughput and latency. BSU5800's 2*2 MIMO technology offers maximum 210Mbps+ throughput for wireless access. The integrated power amplifier has 27dBm output power and the high gain 19 dBi dual-polarized sector antenna extends the wireless coverage to more than 5km.

BSU5800 provides a high quality and affordable end to end solution to wireless network operator and has many applications for wireless internet in rural areas, wireless hotspots, and other industrial wireless solutions.

Key Features

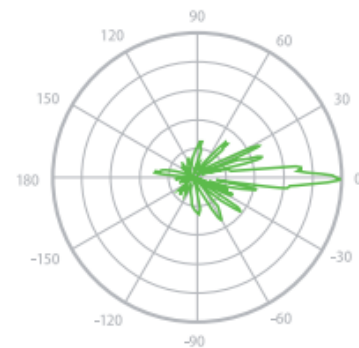
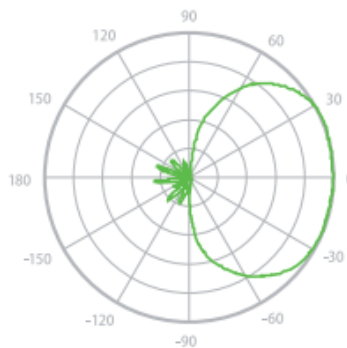
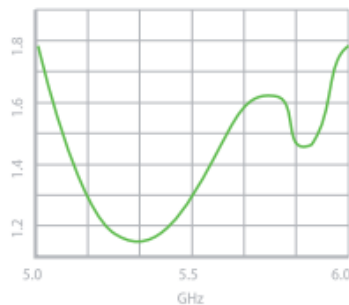
- TDMA greatly improves network scalability for throughput and latency
- Compliant with 802.11 a/n, speed up to 300 Mbps
- 19 dBi dual-polarized antenna to expand coverage and enhance coverage density
- Gigabit LAN port helps get maximum wireless performance
- High-output transmission power and optimized receive sensitivity
- Easy deployment and tilt adjustment with provided mounting kits
- Passive PoE (24V DC) for flexible deployment
- IP67 outdoor die-cast aluminum weather-proof housing
- OEM/ODM, customized enclosure and software available

Application Diagram



The BSU5800 as base station in PIMP WISP connection.

Antenna Information



Specifications

Radio	802.11a/n radio (Atheros 800MHz) Speed up to 300 Mbps Frequency Range: 5.150 ~ 5.250 GHz 5.150 ~ 5.250 GHz 5.250 ~ 5.350 GHz (Supports DFS) 5.470 ~ 5.725 GHz (Supports DFS) 5.725 ~ 5.825 GHz Tx power: up to 27 dBm Rx Sensitivity 300M: -74 dBm @ 10% PER 54M: -78 dBm @ 10% PER 1M: -98 dBm @ 10% PER
Antenna	19dBi dual-polarized directional antenna Beamwidth (HPBW) Horizontal: 120° Vertical: 4° Open space up to 1 ~ 30 km (dependent)
Interfaces	1 × 10/100/1000 Base-T Ethernet
Security	Integrated firewall WPA/WPA2; WPA-PSK/WPA2-PSK (AES/TKIP) Encryption: 64/180-bit WEP
LED	Power: On/Off LAN: On/Off/Flashing WLAN: On/Off/Flashing RSSI Signal: 1, 2, 3
Certification	CE, RoHS
Warranty	2 years
Power	24V DC, 0.75A Power consumption: 6W
Physical Parameters	Dimensions: 700 × 133 × 95 mm

Weight: 2.9 kg
Enclosure: IP67 die-cast aluminium
ESD protection: 16kV
Lightning protection: 8kV, GND terminal
Working temperature: -40 ~ 80°C
Storage temperature: -40 ~ 85°C
Working humidity: 10 ~ 95% (non-condensing)

Ordering Information

Item	Description
BSU5800-90	BSU5800 Base Station Unit, 300Mbps, MIMO 2x2, 20dBi, 90 degree sector antenna – World POE
BSU5800-120	BSU5800 Base Station Unit, 300Mbps, MIMO 2x2, 19dBi, 120 degree sector antenna – World POE

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Ver. ACT_BSU5800_Datasheet_V1b_May_2015