Astrawireless Evolution E6-BSE

PRODUCT DATASHEET

Description	Evolution E6-BSE, 6 GHz base station sector with net throughput up to 800 Mbps
Antenna	2x N-type (F) connectors for external antenna
Recommended distance	40+ km
Frequency range	6050-6425 MHz
Channel width	10, 20, 40, 80 MHz
Net throughput	Up to 800 Mbps in 80 MHz Up to 380 Mbps in 40 MHz Up to 220 Mbps in 20 MHz
Packet performance	Up to 620 000 pps
Transmit power	from -5 to 25 dBm*, step 0.5 dBm
Receiver sensitivity	down to -92 dBm
Center frequency adjustment step	1 MHz

*May be limited by regional EIRP restrictions

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Wired Interfaces	1x GigabitEthernet, SFP, SYNC
Multiple access	TDMA
Consumption	Up to 20 W
Power options	90-240 VAC ~ @ 50/60 Hz, +-43..56 VDC
Part Number Example	E6-BSE
Form Factor and Dimensions	Outdoor Unit (ODU) 240 x 248 x 87 mm, 2.2 kg
	Indoor Unit IDU-CPE-G (24W) 97 x 53.5 x 35.5 mm 0.133 kg

Packing List

- Outdoor unit E6-BSE - 1 pcs
- Power Supply IDU-CPE-G(24W) - 1 pcs
- Power Cord - 1 pcs
- Cable Gland for RJ-45 - 2 pcs
- Cable Gland for SFP - 1 pcs
- Standard RJ-45 connector - 1 pcs
- Shielded RJ-45 connector - 1 pcs
- RJ-45 Plug Cap - 1 pcs
- MONT-KIT-85 Mounting kit - 1 pcs
- Quick Start Guide - 1 pcs

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RADIO FEATURES

Radio technology
MIMO 2x2, OFDM 64/128

Modulation types
From BPSK 1/2 to QAM256 5/6

Voice/RTP Aware Superpacketing

Channel Time Adjustment
Spectrum Analyzer mode
Channel testing tools

Air frame Configurable
from 1 to 10 ms

Uplink / Downlink ratio Configurable
from 50:50 to 92:8, in any direction

DFS / Radar detection / Instant DFS

Automatic Bitrate Control
Automatic Transmit Power Control
Automatic Distance Learning

Wide range of network settings ■ Built-in spectrum analyzer and antenna alignment tools ■ Easy operation due to automatic control options

NETWORKING FEATURES

Adaptive TDMA air protocol
Dynamic and fixed air frame duration
Subscriber activity aware scheduling
Permanent channel testing

Pseudo-radio interface

Full-fledged 2nd layer switch
RIPv2 / OSPFv2 /static routing
MAC/IP filtering
L2/L3 Firewall

Quality of Service
IEEE 802.1p, IP TOS/DiffServ support
Full voice support
Traffic limiting (absolute, relative, mixed)

Proprietary MINT network protocol

Ethernet-over-IP and IP-over-IP tunnels
ARP protocol support
NAT (multipool, H.323-aware)
DHCP client/server/relay

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MANAGEMENT AND SECURITY

Various Management Protocols

HTTP, HTTPS, SSH, Telnet, SNMP v1/2c/3 (MIB-II and proprietary MIBs)

- Antenna alignment tool
- Automatic software update
- Online monitoring with EMS NEXT
- WEB GUI

Safety & Security

- Storm/flood protection
- Password protection
- Secure CLI access via SSH protocol

LED Indication

- Power status
- Wired link status

STANDARD COMPLIANCE

Radio

- ETSI EN 301 893 v.2.1.1
- ETSI EN 302 502 v.2.1.1
- FCC part 15.407

EMC

- ETSI EN 301 489-1 v.2.1.1
- ETSI EN 301 489-17 v.3.1.1
- FCC Part 15 Class B

Safety

- EN 62368-1:2014+A11:2017
- UL 62368-1:2014
- EN 62311:2008

RoHS3

EN IEC 63000:2018

Lightning protection

IEC 61000-4-2:
+/-4kV (contact discharge),
+/-8kV (air discharge)

IEC 61000-4-4:
+/-0.5kV

IEC 61000-4-5:
+/-1kV (line-to-ground),
+/-0.5kV (line-to-line)

OPERATION OPTIONS

Power options

- 90–240 VAC @ 50/60 Hz
- ±43..56 VDC
- 802.3at or Proprietary PoE

Outdoor Unit environmental conditions

- -40..+60°C, can be extended to -55..+60°C (models with “t” index in PN)
- 100% humidity, condensing
- Dust and water protection IP66, IP67
- Wind load 160 km/h, operational; 200 km/h, survival

Indoor Unit environmental conditions

- 0..+40°C
- 95% humidity, non-condensing

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