

Astra Evolution E5-BSI

| Description | Evolution E5-BSI, 5 GHz base station sector, net throughput up to 800 Mbps, integrated dual-pol antenna, 16 dBi, 90x8 deg |
|-------------------------------------|--|
| Net throughput | up to 800 Mbps in 80 MHz up to 380 Mbps in 40 MHz up to 220 Mbps in 20 MHz |
| Recommended distances | up to 20 km |
| Radio technology | MIMO 2x2 (OFDM 64/128) |
| Modulation coding schemes | from BPSK 1/2 to QAM256 5/6 |
| Transmit power | from -5 to 27 dBm*, step 0.5 dBm |
| Receiver sensitivity | down to -93 dBm |
| Frequency range | 4900-6050 MHz |
| Channel width | 20, 40, 80 MHz |
| Center frequency adjustment step | 1 MHz |
| Duplex scheme | TDD |
| Wired Interfaces | 1x GigabitEthernet, SFP, SYNC |
| Antenna | 16 dBi |

*May be limited by regional EIRP restrictions





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| Consumption | up to 20 W |
|---------------------|---|
| Power options | 90-240 VAC ∼ @ 50/60 Hz, +-4356 VDC |
| Outdoor Unit (ODU) | 371 x 371 x 90 mm, 4.4 kg |
| Part Number Example | E5-BSI |
| Packing List | Outdoor unit E5-BSI - 1 pcs. Power Supply IDU-CPE-G(24W) - 1 pcs. Power Cord - 1 pcs. Cable Gland for RJ-45 - 2 pcs. Cable Gland for optical cable - 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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Features

RADIO

- Voice/RTP Aware Superpacketing
- ▶ DFS
- Automatic Bitrate Control
- Automatic Transmit Power Control
- Automatic Distance Learning
- Channel Time Adjustment
- Spectrum Analyzer mode
- Channel testing tools

NETWORKING

- Ethernet-over-IP and IP-over-IP tunneling
- ARP protocol support
- ▶ MAC/IP filtering
- Full-fledged 2nd layer switch
- RIPv2 / OSPFv2 /static routing
- L2/L3 Firewall
- NAT (multipool, H.323-aware)
- DHCP client/server/relay

MANAGEMENT FEATURES

- Various Management Protocols: HTTP, HTTPS, SSH, Telnet, SNMP v1/2c/3 (MIB-II and proprietary MIBs)
- Graphical User Interface
- LED Indication: power status, wired link status
- Antenna alignment tool
- Automatic software update
- > Online monitoring with proprietary EMS NEXT.

QUALITY-OF-SERVICE

- 17 priority queues
- ▶ IEEE 802.1p support
- ▶ IP TOS / DiffServ support
- ▶ Full voice support
- Traffic limiting (absolute, relative, mixed)
- Traffic redirection





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Features

ENVIRONMENTAL

- Outdoor Units:
 - operating temperature range -40.+60 °C, (can be extended to -55.+60 °C, models with "t" index in PN), 100% humidity, condensing
 - IP66/IP67 compliant water and dust protection
 - —wind load: 200 kph, survival
- Indoor Unit:
 - 0..+40 °C, 95% humidity, non-condensing

SECURITY FEATURES

- Storm/flood protection
- Password protection
- Secure command-line access via SSH protocol

MAC

- Adaptive TDMA air protocol:
 - Dynamic and fixed air frame duration
 - Subscriber activity aware scheduling
 - Permanent channel testing
- Pseudo-radio interface:
 - unique Astra Wireless feature to join Astra networks via
 3rd party equipment
- > Automatic over-the-air firmware upgrade

STANDARD COMPLIANCE

- Radio
 - ETSI EN 301 893 v.2.1.1
 - ETSI EN 302 502 v.2.1.3
 - FCC Part 15.407
- ▶ EMC
 - ETSI EN 301 489-1 v.2.2.3
 - ETSI EN 301 489-17 v.3.2.4
 - FCC Part 15 Class B
- Safety
 - EN 62368-1:2014+A11:2017
 - EN60950-22:2017
 - EN62311:2008
- RoHS (pending)
 - EN IEC 63000:2018

