Astra Evolution E6-BSIL
PRODUCT DATASHEET

Description	Evolution E6-BSIL, 5-6 GHz base station sector, with 5 subscriber limitation
Antenna	Integrated dual-pol antenna, 16 dBi, 90x8°
Recommended distance	Up to 20 km
Frequency range	4900–6425 MHz
Channel width	20, 40, 80 MHz
Net throughput	Up to 700 Mbps in 80 MHz Up to 330 Mbps in 40 MHz Up to 150 Mbps in 20 MHz
Transmit power	from -5 to 27 dBm*, step 0.5 dBm
Receiver sensitivity	down to -93 dBm
Center frequency adjustment step	1 MHz
Duplex scheme	TDD

*May be limited by regional EIRP restrictions

Astra Evolution **E6-BSIL**

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Wired Interfaces	1x GigabitEthernet
Consumption	Up to 15 W
Power options	90-240 VAC ~ @ 50/60 Hz, +-43..56 VDC
Part Number Example	E6-BSIL
Form Factor and Dimensions	**Outdoor Unit (ODU)** 371 x 371 x 71.5 mm, 2.8 kg
	Indoor Unit IDU-CPE-G (24W) 97 x 53.5 x 35.5 mm 0.133 kg
Packing List	• Outdoor unit E6-BSIL - 1 pcs • Power Supply IDU-CPE-G(24W) - 1 pcs • Power Cord - 1 pcs • Cable Gland for RJ-45 - 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

RADIO FEATURES

Radio technology
MIMO 2x2, OFDM 64/128

Air frame Configurable
from 1 to 10 ms

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

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

Voice/RTP Aware Superpacketing

DFS / Radar detection / Instant DFS

Channel Time Adjustment
Spectrum Analyzer mode
Channel testing tools

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

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

Pseudo-radio interface

Proprietary MINT network protocol

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

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

Astra Wireless

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

Wireless and wired link status

Signal level

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
110—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

Astra Wireless