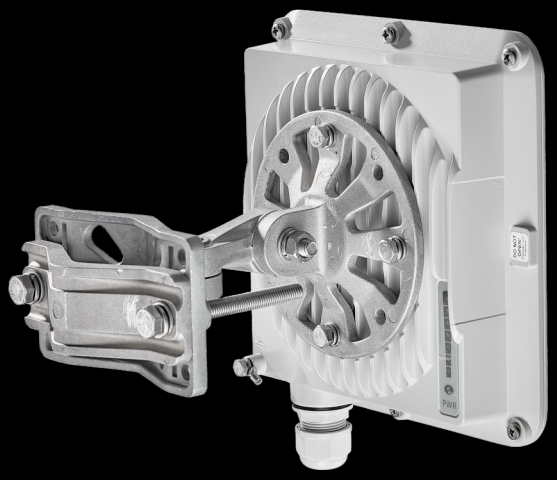
Astrawireless Evolution E6-STE

PRODUCT DATASHEET



Description	Evolution E6-STE, 5+6 GHz subscriber terminal, with 2x N-type (F) connectors
Antenna	2x N-type (F) connectors for external antenna
Recommended distance	30+ km
Frequency range	4900-6425 MHz
Channel width	10, 20, 40, 80 MHz
Net throughput	Up to 670/780^{hp} Mbps in 80 MHz Up to 370/380^{hp} Mbps in 40 MHz Up to 160/165^{hp} Mbps in 20 MHz
Transmit power^{eirp}	from -5 to 25 dBm from -5 to 27 dBm^{hp}
Receiver sensitivity	down to -91 dBm down to -93 dBm^{hp}
Center frequency adjustment step	1 MHz
Duplex scheme	TDD

^{hp} - is a high-power device with an extended energy characteristic and increased throughput

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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-STE
Form Factor and Dimensions	Outdoor Unit (ODU) 180x190x86 mm, 1.2 kg
	Indoor Unit IDU-CPE-G (24W) 97 x 53.5 x 35.5 mm 0.133 kg
Packing List	• Outdoor unit E6-STE- 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

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sales@astrawireless.net

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

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

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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