

Astrawireless Quasar Qsr5-Ep

PRODUCT DATASHEET

Description Quasar Qsr5-Ep, 5 GHz point-to-point unit with 2x N-type (F) connectors

Antenna external, need waveguide with 2x N-type (F) connectors

Recommended distance up to 50 km

Frequency range* 4900-6060 MHz

Channel width 20, 40, 80, 160 MHz

Net throughput up to 2100 Mbps in 160 Mhz
up to 1100 Mbps in 80 MHz

Packet performance Up to 500 000 pps

Transmit power** up to 30 dBm, step 1 dBm

Receiver sensitivity down to -93 dBm

Center frequency adjustment step 1 MHz



*May be limited by regional frequency restrictions

**May be limited by regional EIRP restrictions

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Wired Interfaces	1x 2,5 Gigabit Ethernet port (RJ45), 1x 10 Gigabit SFP, 1x DC IN, 1x Sync
Multiple access	Polling, TDD
Consumption	Up to 30 W
Power options	90-240 VAC ~ @ 50/60 Hz, +-43..56 VDC
Part Number Example	Qsr5-Ep
Form Factor and Dimensions	Outdoor Unit (ODU) 200 x 191 x 69 mm, 2.2 kg
	Indoor Unit IDU-CPE-G (56W) 137,5 x 62,5 x 33 mm, 0.24 kg

Packing List	• Outdoor unit Qsr5-Ep - 1 pcs • Power Supply IDU-CPE-G(56W) - 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
- **Automatic** Bitrate Control
Automatic Transmit Power Control
Automatic Distance Learning
- **Modulation types**
From BPSK 1/2 to QAM 4096 5/6
- Channel Time Adjustment
Channel testing tools
- Voice/RTP Aware Superpacketting
- Spectrum Analyzer mode

Wide range of
network settings

■ Multi-kilometer
gigabit backhaul

■ Easy operation due to
automatic control options

NETWORKING FEATURES

- **MAC**
Full-fledged 2nd layer switch
VLAN 802.1q
- **Quality of Service**
IEEE 802.1p support
8 priority queues
- Proprietary MINT network protocol
Pseudo-radio interface
Own switch group system
- DHCP-client



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
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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 61000-4-3: +/-0.5kV IEC 61000-4-4: +/-1kV (line-to-ground), +/-0.5kV (line-to-line)
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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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*Pending



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