

# Astrawireless Quasar Qsr5-29

## PRODUCT DATASHEET

**Description** Quasar Qsr5-29, 5 GHz point-to-point unit with 29 dBi removable antenna

**Antenna** Removable dual-pol antenna, 29 dBi, 5x5°

**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

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

**Receiver sensitivity** down to -93 dBm

**Center frequency adjustment step** 1 MHz

**Multiple access** Polling, TDD\*



\*Roadmap

\*\*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

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**Consumption** Up to 30 W

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**Power options** 90-240 VAC ~ @ 50/60 Hz, +-43.56 VDC

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**Part Number Example** Qsr5-29

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**Form Factor and Dimensions** **Outdoor Unit (ODU)**  
Ø700 x 205 mm, 5.8 kg

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**Indoor Unit IDU-CPE-G (56W)**  
137,5 x 62,5 x 33 mm, 0.24 kg

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**Packing List**

- Outdoor unit Qsr5-29 - 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

# 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 Superpacketing**
- **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

■ <b>Various Management Protocols</b> 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	■ <b>Safety &amp; Security</b> Storm/flood protection Password protection Secure CLI access via SSH protocol	■ <b>LED Indication</b> Power status Wired link status
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# STANDARD COMPLIANCE\*

■ <b>Radio</b> ETSI EN 301 893 v.2.1.1 ETSI EN 302 502 v.2.1.1 FCC part 15.407	■ <b>EMC</b> ETSI EN 301 489-1 v.2.1.1 ETSI EN 301 489-17 v.3.1.1 FCC Part 15 Class B	■ <b>Safety</b> EN 62368-1:2014+A11:2017 UL 62368-1:2014 EN 62311:2008  <b>RoHS3</b> EN IEC 63000:2018	■ <b>Lightning protection</b> 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)
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# OPERATION OPTIONS

■ <b>Power options</b> 90–240 VAC @ 50/60 Hz ±43.56 VDC 802.3at or Proprietary PoE	■ <b>Outdoor Unit environmental conditions</b> -40..+60°C, can be extended to -55..+60°C (models with "t" index in PN) 100% humidity, condensing	■ <b>Indoor Unit environmental conditions</b> 0..+40°C 95% humidity, non-condensing
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\*Pending



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