

Astrawireless Quasar Qsr5-29

PRODUCT DATASHEET

Description	Quasar Qsr5-29, 5 GHz point-to-point unit with 29 dBi removable antenna
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Antenna	Removable dual-pol antenna, 29 dBi, 5x5°
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Recommended distance	up to 50 km
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Frequency range	4900-6060 MHz
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Channel width	20, 40, 80, 160 MHz
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Net throughput	up to 2100 Mbps in 160 Mhz up to 1100 Mbps in 80 MHz
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Packet performance	Up to 500 000 pps
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Transmit power**	up to 30 dBm, step 1 dBm
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Receiver sensitivity	down to -93 dBm
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Center frequency adjustment step	1 MHz
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*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
Multiple access	Polling, TDD
Consumption	Up to 30 W
Power options	90-240 VAC ~ @ 50/60 Hz, +-43.56 VDC

Part Number Example	Qsr5-29
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Form Factor and Dimensions	Outdoor Unit (ODU) Ø700 x 205 mm, 5.8 kg
	Indoor Unit IDU-CPE-G (56W) 137,5 x 62,5 x 33 mm, 0.24 kg

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
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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 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

■ 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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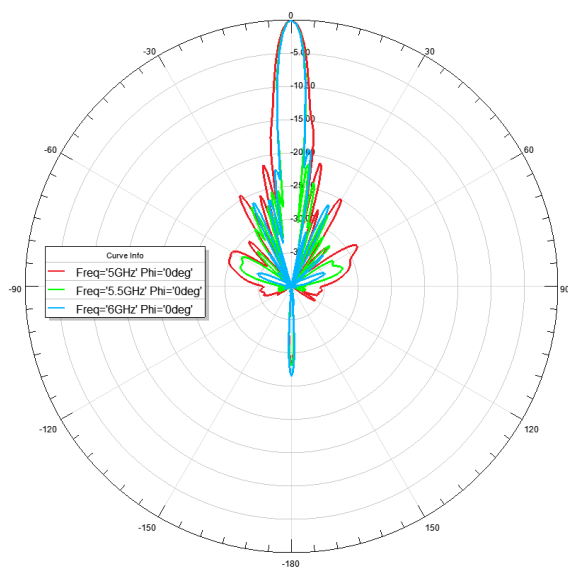
*Pending



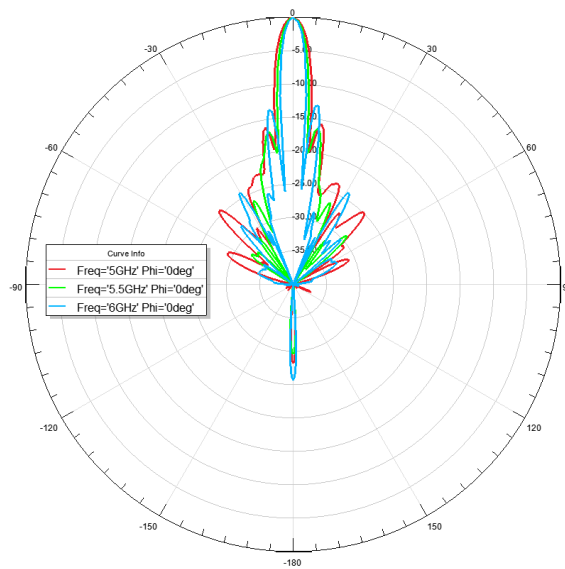
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Radiation pattern

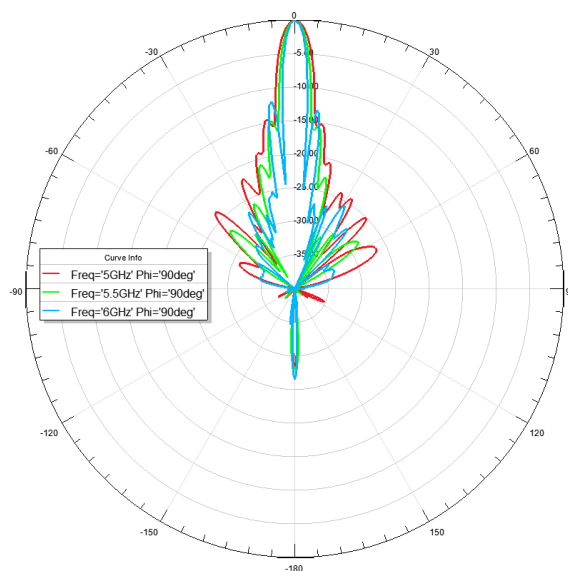
E-plane H-pol



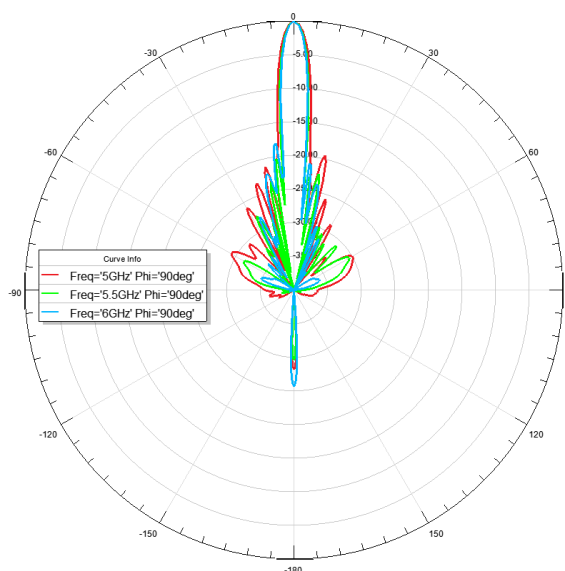
E-plane V-pol



H-plane H-pol



H-plane V-pol



Astrawireless

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