

# Astrawireless Quanta Q6-29

## PRODUCT DATASHEET

### Description

Quanta Q6-29 is 6 GHz point-to-point unit with removable antenna 29 dBi

### Antenna

Removable dual-pol parabolic antenna, 29 dBi, 5x5 deg

### Recommended distance

Up to 80 km

### Frequency range

6000-6425 MHz

### Channel width

3.5, 5, 7, 10, 14, 15, 20, 28, 30, 40, 50, 56 MHz

### Net throughput

Up to 650 Mbps in 56 MHz  
Up to 460 Mbps in 40 MHz  
Up to 230 Mbps in 20 MHz

### Packet performance

1 200 000 pps

### Transmit power

from -10 to 27 dBm\*, step 1 dBm

### Receiver sensitivity

down to -101 dBm

### Center frequency adjustment step

1 MHz



\*May be limited by regional EIRP restrictions

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**Wired Interfaces** 1x Combo port GigabitEthernet/SFP

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**Duplex scheme** TDD

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**Consumption** Up to 15 W

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

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**Part Number Example** Q6-29

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**Form Factor and Dimensions** Outdoor Unit (ODU)  
Ø700 x 215 mm, 5.8 kg

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Indoor Unit IDU-CPE-G (24W)  
97 x 53.5 x 35.5 mm 0.133 kg

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**Packing List**

- Outdoor unit Q6-29- 1 pcs
- Power Supply IDU-CPE-G(24W) - 1 pcs
- Power Cord - 1 pcs
- Cable Gland for RJ-45 - 1 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, SC-FDE
- **Modulation types**  
14 MCS – from QPSK 1/4 to QAM256 7/8
- **Spectrum Analyzer mode**  
Channel testing tools
- **DFS / Radar detection**
- **Air frame Configurable**  
1, 2, 5, 10 ms
- **Uplink / Downlink ratio Configurable**  
from 50:50 to 92:8, in any direction
- **Automatic Bitrate Control**  
**Automatic Transmit Power Control**  
**Automatic Distance Learning**

Unique interference mitigation capabilities

Built-in spectrum analyzer and antenna alignment tools

Easy operation due to automatic control options

# NETWORKING FEATURES

- **MAC**  
VLAN 802.1q
- **Quality of Service**  
IEEE 802.1p support  
8 priority queues
- **Full-fledged 2nd layer switch**
- **Transparent L2 transport for Ethernet traffic**



# 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 Wireless and wired link status Signal level
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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 ETSI EN 301 489-17 FCC Part 15 Class B	■ <b>Safety</b> EN 62368-1:2014+A11:2017 UL 62368-1:2014  ■ <b>RoHS3</b> RoHS3 Directive 2015/863/EU (pending)	■ <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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