

# Astrawireless Quanta Q5-25

## PRODUCT DATASHEET

### Description

Quanta Q5-25 is 5 GHz point-to-point unit with integrated antenna 25 dBi

### Antenna

Integrated dual-pol antenna, 25 dBi, 8x8 deg

### Recommended distance

Up to 60 km

### Frequency range

4900-6000 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



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\*May be limited by regional EIRP restrictions

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|                               |                                                             |
|-------------------------------|-------------------------------------------------------------|
| Wired Interfaces              | 1x Combo port GigabitEthernet/SFP                           |
| Duplex scheme                 | TDD, H-FDD                                                  |
| Consumption                   | Up to 15 W                                                  |
| Power options                 | 90-240 VAC ~ @ 50/60 Hz, +-43.56 VDC                        |
| Part Number<br>Example        | Q5-25                                                       |
| Form Factor and<br>Dimensions | Outdoor Unit (ODU)<br>350 x 350 x 71.5 mm, 2.3 kg           |
|                               | Indoor Unit IDU-CPE-G (24W)<br>97 x 53.5 x 35.5 mm 0.133 kg |

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packing List | <ul style="list-style-type: none"><li>• Outdoor unit Q5-25- 1 pcs</li><li>• Power Supply IDU-CPE-G(24W) - 1 pcs</li><li>• Power Cord - 1 pcs</li><li>• Cable Gland for RJ-45 - 1 pcs</li><li>• Cable Gland for SFP - 1 pcs</li><li>• Standard RJ-45 connector - 1 pcs</li><li>• Shielded RJ-45 connector - 1 pcs</li><li>• RJ-45 Plug Cap - 1 pcs</li><li>• MONT-KIT-85 Mounting kit - 1 pcs</li><li>• Quick Start Guide - 1 pcs</li></ul> |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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# 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 / Instant DFS**
- **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

|                                                                                                                  |                                                                                                        |                                                                                                                          |                                                                                              |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| ■<br><b>Various Management Protocols</b><br>HTTP, HTTPS, SSH, Telnet, SNMP v1/2c/3 (MIB-II and proprietary MIBs) | ■<br>Antenna alignment tool<br>Automatic software update<br>Online monitoring with EMS NEXT<br>WEB GUI | ■<br><b>Safety &amp; Security</b><br>Storm/flood protection<br>Password protection<br>Secure CLI access via SSH protocol | ■<br><b>LED Indication</b><br>Power status<br>Wireless and wired link status<br>Signal level |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|

# STANDARD COMPLIANCE

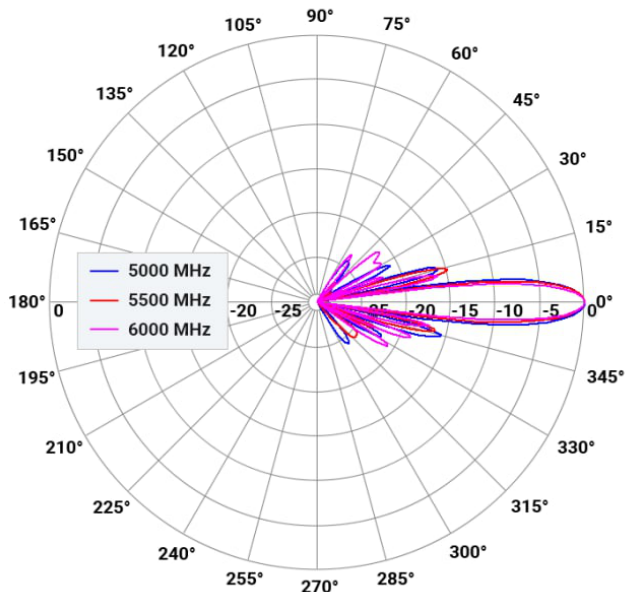
|                                                                                            |                                                                                   |                                                                                                                                |                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ■<br><b>Radio</b><br>ETSI EN 301 893 v.2.1.1<br>ETSI EN 302 502 v.2.1.1<br>FCC part 15.407 | ■<br><b>EMC</b><br>ETSI EN 301 489-1<br>ETSI EN 301 489-17<br>FCC Part 15 Class B | ■<br><b>Safety</b><br>EN 62368-1:2014+A11:2017<br>UL 62368-1:2014<br><br><b>RoHS3</b><br>RoHS3 Directive 2015/863/EU (pending) | ■<br><b>Lightning protection</b><br>IEC 61000-4-2: +/-4kV (contact discharge), +/-8kV (air discharge)<br>IEC 61000-4-4: +/-0.5kV<br>IEC 61000-4-5: +/-1kV (line-to-ground), +/-0.5kV (line-to-line) |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# OPERATION OPTIONS

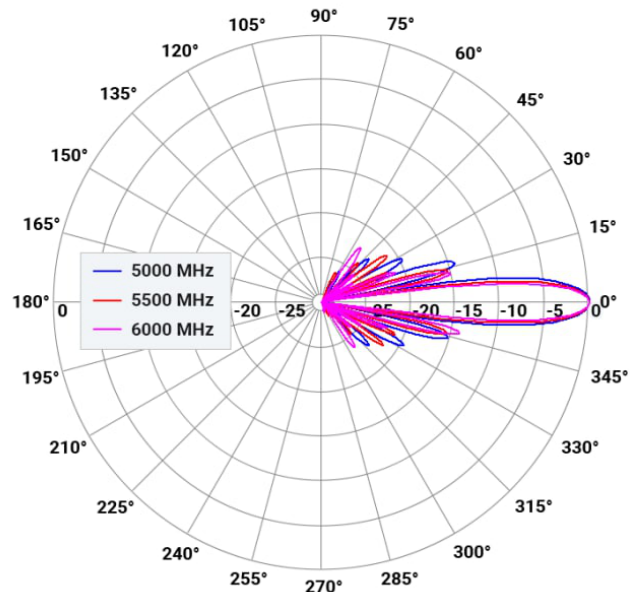
|                                                                                                |                                                                                                                                                                                                                                                          |                                                                                              |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| ■<br><b>Power options</b><br>90–240 VAC @ 50/60 Hz<br>±43.56 VDC<br>802.3at or Proprietary PoE | ■<br><b>Outdoor Unit environmental conditions</b><br>-40..+60°C, can be extended to -55..+60°C (models with "t" index in PN)<br>100% humidity, condensing<br>Dust and water protection IP66, IP67<br>Wind load 160 km/h, operational; 200 km/h, survival | ■<br><b>Indoor Unit environmental conditions</b><br>0..+40°C<br>95% humidity, non-condensing |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|

# Radiation pattern

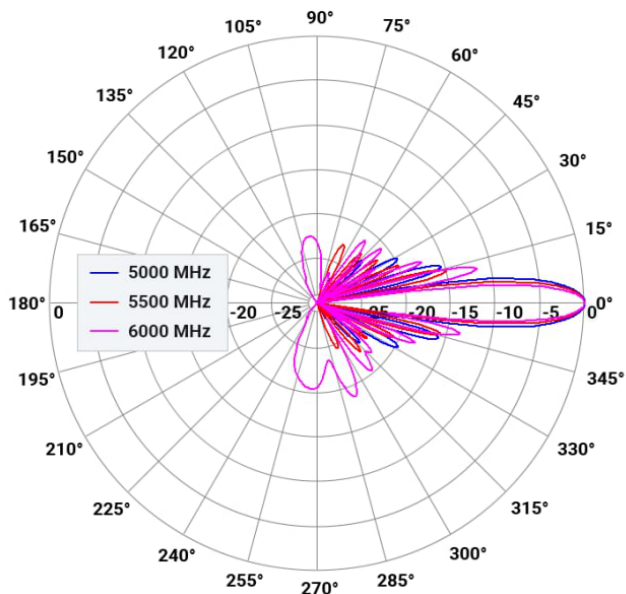
**E-plane H-pol**



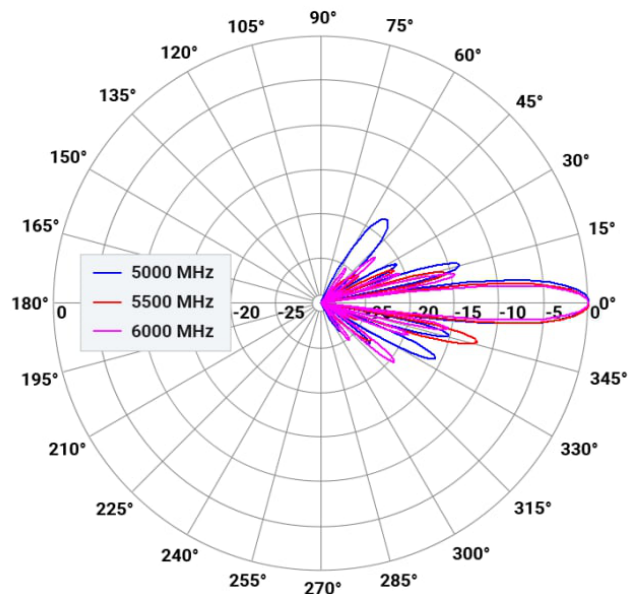
**E-plane V-pol**



**H-plane H-pol**



**H-plane V-pol**



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