


Quanta 5 Q5-28

Description	Quanta 5 Q5-28, 5 GHz point-to-point unit, net throughput up to 650 Mbps, integrated dual-pol antenna, 28 dBi, 5x5 deg
Net throughput	up to 650 Mbps
Recommended distances	up to 80 km
Radio technology	MIMO 2x2 (SC-FDE)
Modulation coding schemes	from QPSK 1/4 to QAM256 7/8
Transmit power	up to 27 dBm
Receiver sensitivity	down to -101 dBm
Frequency range	4900-6000 MHz
Channel width	3.5, 5, 7, 10, 14, 15, 20, 28, 30, 40, 50, 56 MHz
Center frequency adjustment step	1 MHz
Duplex scheme	TDD
Antenna	28 dBi
Wired Interfaces	1x Combo port GigabitEthernet/SFP



Quanta 5 Q5-28

Consumption	up to 15 W
Power options	90-240 VAC ~ @ 50/60 Hz, ±43..56 VDC
Outdoor Unit (ODU)	600 x 600 x 68 mm, 5.8 kg
	
Part Number Example	Q5-28/08502
Packing List	<ul style="list-style-type: none"> - Outdoor unit Q5-28 - 1 pcs. - Power Supply IDU-CPE-G(24W) - 1 pcs. - Power Cord - 1 pcs. - Cable Gland INFINET-GLAND-V1 - 1 pcs. - Cable Gland INFINET-GLAND-V2 - 1 pcs. - Standard RJ-45 connector - 1 pcs. - Shielded RJ-45 connector - 1 pcs. - RJ-45 Plug Cap - 1 pcs. - MONT-KIT-85S Mounting kit - 1 pcs. - Quick Start Guide - 1 pcs.



Quanta 5 Q5-28

Features

RADIO

- ▶ **DFS**
 - ETSI/FCC, including radar detection (including off-channel CAC) and adaptivity
- ▶ **Instant DFS**
 - background spectrum monitoring by both Master and Slave terminal units
 - seamless channel change
- ▶ **Automatic Bitrate Control**
- ▶ **Automatic Transmit Power Control**
- ▶ **Channel Time Adjustment**

NETWORKING

- ▶ **Built-in full-fledged L2 switch supporting**
- ▶ **Transparent L2 transport for Ethernet traffic of any type**

MANAGEMENT FEATURES

- ▶ **Various Management Protocols: HTTP, SSH, HTTPS, Telnet, SNMP v1/2c/3 (MIB-II and proprietary MIBs)**
- ▶ **Graphical User Interface**
- ▶ **LED Indication: power status, wireless and wired link status, signal level**
- ▶ **Antenna alignment tool**
- ▶ **Automatic software update**
- ▶ **Online monitoring with proprietary EMS InfiMONITOR**

QUALITY-OF-SERVICE

- ▶ **8 priority queues**
- ▶ **IEEE 802.1p support**
- ▶ **IP DiffServ support**



Quanta 5 Q5-28

Features

ENVIRONMENTAL

- ▶ **Outdoor Units:**
 - operating temperature range $-40..+60$ °C, (can be extended to $-55..+60$ °C, models with "t" index in PN), 100% humidity, condensing
 - IP66/IP67 compliant water and dust protection
- ▶ **Indoor Unit: $0..+40$ °C, 95% humidity, non-condensing**

SECURITY FEATURES

- ▶ **Storm/flood protection**
- ▶ **Password protection**
- ▶ **Secure command-line access via SSH protocol**

MAC

- ▶ **VLAN, 802.1ad DVLAN Q-in-Q (pending), 802.1Q (pending)**

STANDARD COMPLIANCE

- ▶ **Safety:**
 - EN/IEC 62368-1:2014, UL 62368-1:2014
- ▶ **Radio:**
 - EN 301 893 v.2.1.1, EN 302 502, v.2.1.1, FCC part 15.407
- ▶ **EMC:**
 - ETSI EN 301 489-1, ETSI EN 301 489-17, FCC Part 15 Class B
- ▶ **RoHS:**
 - RoHS3 Directive 2015/863/EU (pending)



Quanta 5 Q5-28

Radiation diagram

