



Quanta 5 **NEW**

Quanta 5 is a brand new record-breaking spectral efficiency 5 GHz Point-to-Point solution with an impressive performance of up to 460 Mbps in only a 40 MHz channel size.

Quanta 5 offers a unique combination of high performance, affordability and ease of installation.



460 Mbps



5 GHz



900,000 pps

Octopus SDR Platform

Infinet's latest Octopus Software Defined Radio (SDR) platform has been designed using a state-of-the-art proprietary SDR technology specifically aimed at increasing link performance several-fold. Addressing challenges such as limited spectrum availability, growing interference and demands for yet more capacity, Quanta 5 combines the best features from Infinet's well-proven R5000 and XG families, as well as numerous cutting-edge wireless breakthroughs, to deliver unparalleled performance in all weather conditions.

Quanta 5 is based on the brand new Octopus SDR platform, making this family of PTP solutions fully future proof and allowing it to improve its PHY, MAC and upper layer features remotely via a simple firmware upgrade, including for units already deployed in the field.



**Optimal balance
of cost and quality**



**High capacity
and reliability**



**Superior inter-
ference mitigation**

Top Facts

✓ Exceptional Cost Efficiency

The Quanta 5 solution offers significant cost savings when compared to other cabled and wireless solutions available in today's marketplace. It is the first product from Infinet Wireless designed primarily for the SOHO market and small service providers.

✓ Optimal Performance in all Operational Conditions

Quanta 5 supports 14 modulation-coding schemes, which makes it easily distinguishable from other solutions. Even when operating in high interference environments, Quanta 5 dynamically selects the most suitable MCS for each polarization, and ensures the delivery of all packets transmitted using an advanced ARQ algorithm.

✓ Interference Mitigation

Quanta 5 has a number of built-in interference mitigation techniques. The Instant DFS technology allows automatic frequency channel change in case of congestion or radar detection, all achieved with zero outage. Thanks to its support of H-FDD (also known as split-frequency mode), it identifies and selects uplink and downlink channels independently.

✓ Ease of Installation

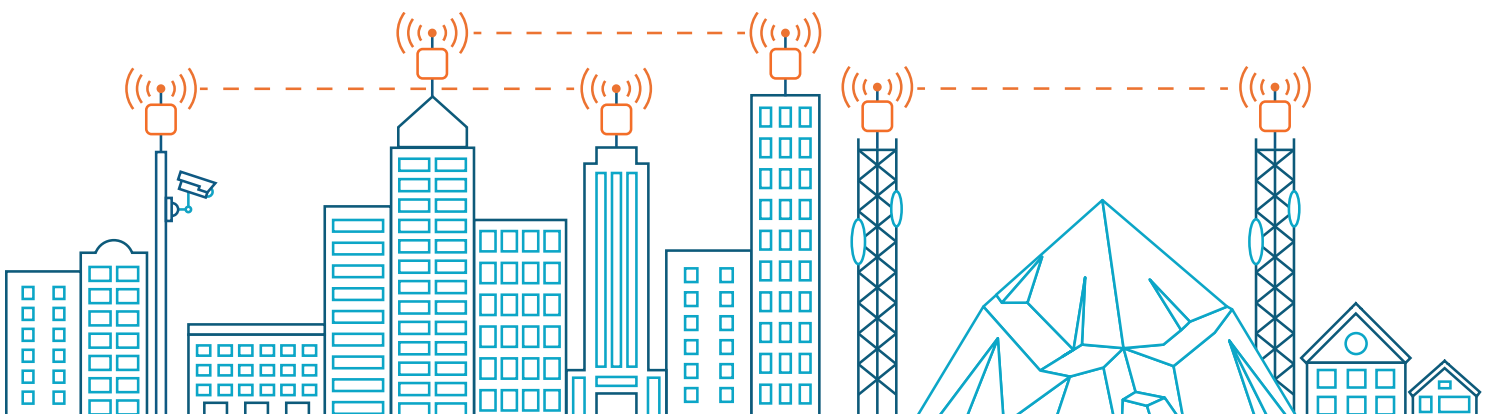
Quick and ease of installation reduces field deployment costs and facilitate rapid service delivery.

✓ Robustness

Guaranteed and stable connectivity even in the most adverse weather conditions, including extreme temperature ranges from -40° to $+60^{\circ}\text{C}$, thunderstorms and wind speeds of up to 160 km/h.

Application

Quanta 5 can be deployed in a diverse range of applications, from backhauling for Wi-Fi and 4G/LTE base stations to CCTV and video-surveillance infrastructures. It can also provide Internet access to remote locations.



Technical Specifications

Performance	
Throughput	Up to 460 Mbps, net aggregate
Packet performance	900,000 packets per second
Latency	Up to 1.7 ms for the air frame 1 ms, depends on air frame value
Radio Technology	
Modulation	SC-FDE
Modulation coding schemes	14 MCS – from QPSK to QAM256
Frequency range	4900 – 6000 MHz
Channel width	3.5, 5, 7, 10, 14, 15, 20, 28, 30, 40 MHz
Center frequency adjustment step	1 MHz
Transmit power	Up to 27 dBm
Receiver sensitivity	Down to -100 dBm
Duplex scheme	TDD, H-FDD
Antenna	Integrated dual polarization flat panel 23 dBi Connectorized: 2x N-type connectors for external dual-polarization antenna
Maximal range	Up to 40 km
Air Protocol	
Air frame	Configurable from 1 to 10 ms
Uplink/Downlink ratio	Configurable from 50:50 to 90:10, in any direction
Automatic modulation control	Supported
Automatic ranging	Supported
Interference Mitigation	Instant DFS*
Wired Interfaces	
Ethernet	1x GigabitEthernet port (RJ45)
PoE	802.3at or Infinet Wireless proprietary passive PoE
Qos And Network Protocols	
QoS	8 queues
Prioritization	Supported
Packet classification	802.1p
Network protocols	VLAN, 802.1ad (DVLAN Q-in-Q)*, 802.1Q*
Jumbo frame support	Up to 9038 bytes
Network timing	IEEE 1588v2 transparent clock*
Management And Installation	
LED indication	Power status, link status and RSSI indication
Management protocols	HTTP, HTTPS, SSH, SNMP, FTP, Telnet
Web GUI tools	Antenna alignment tool, Spectrum analyzer
Physical	
Operating temperature range	From -40°C to +60°C
Dust and water protection	IP66, IP67
Wind load	160 km/h, operational; 200 km/h, survival
Power supply	IDU-CPE-G, IDU-BS-G (60W), IDU-LA-G(V.01)
Power consumption	Up to 15 W
Compliance	
Safety	EN/IEC 62368-1:2014, UL 62368-1:2014
Radio	EN 301 893 v.1.8.1, EN 302 502 v.1.2.1, FCC part 15.407
EMC	ETSI EN 301 489-1, ETSI EN 301 489-17, FCC Part 15 Class B
RoHS	RoHS3 Directives 2015/863/EU**

Model Configuration

Q5-23 | **Q5-E**



FREQUENCY RANGE	4900 – 6000 MHz	4900 – 6000 MHz
ANTENNA	23 dBi, 10x10 deg	2 x N-type connectors
SIZE AND WEIGHT	305 x 305 x 66 mm, 1.75 kg	180 x 190 x 86 mm, 1.2 kg

Scan it for more information



Infinet Wireless provides its customers with carrier-grade wireless solutions through a global network of highly qualified channel partners