

## Vector 5

Vector 5 is Point to Point wireless solution for 5GHz frequency.

### Main Benefits

- Optimal Performance in all Operational Conditions
- Supports 14 modulation-coding schemes
- Dynamically selects the most suitable MCS for each polarization,
- ARQ algorithm.
- Interference Mitigation
- Vector 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
- Power consumption Up to 15 W

### Technical Specifications

Highly efficient mechanisms for operation in high interference environments: Instant DFS, ARQ, etc.

|   | <b>V5-23</b>  | <b>V5-E</b>   |
|---|---|---|
| <b>Frequency range</b>                    | 4900 - 6000 MHz                                       | 4900 - 6000 MHz                                       |
| <b>Transmit power</b>                     | 27 dBm  | 27 dBm  |
| <b>Antenna gain</b>                       | 23 dBi  | External antenna, 2x N-type connector                 |
| <b>Throughput</b>                         | Up to 460 Mbps in 40 MHz<br>up to 650 Mbps in 56 MHz  | Up to 460 Mbps in 40 MHz<br>up to 650 Mbps in 56 MHz  |
| <b>Interference Mitigation Techniques</b> | ARQ, Instant DFS                                      | ARQ, Instant DFS                                      |
| <b>Channel width</b>                      | 3.5 / 5 / 7 / 10 / 14 / 15 / 20 /<br>28 / 30 / 40 MHz | 3.5 / 5 / 7 / 10 / 14 / 15 / 20 /<br>28 / 30 / 40 MHz |
| <b>Duplex scheme</b>                      | TDD, H-FDD  | TDD, H-FDD  |
| <b>Distance</b>                           | 10-40 Km  | + 40 Km   |

## Performance

- Throughput Up to 460 Mbps, net aggregate
- Packet performance 900,000 packets per second
- Latency 0.5 to 3ms maximum, each way

## 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 -95 dBm
- Duplex scheme TDD, H-FDD
- Antenna Integrated dual polarization flat panel 18, 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
- Instant DFS Supported

## 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\*
- 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
- 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)

|                        | V5-23   | V5-18  | V5-E  |
|------------------------|---|--|---|
| <b>Picture</b>         |  |  |  |
| <b>Frequency</b>       | 4900-6000 MHz   | 4900-6000 MHz  | 4900-6000 MHz   |
| <b>Antenna</b>         | 23 dBi 10x10 deg  | 18 dBi 18x18 deg   | 2 x N-type connectors   |
| <b>Weight and size</b> | 305 x 305 x 66 mm,<br>1.75 kg   | 188 x 188 x 45 mm,<br>1.2 kg   | 180 x 190 x 86 mm,<br>1.2 kg  |