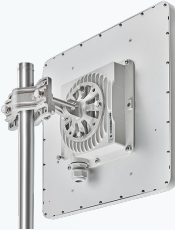


InfiMAN Evolution E5-ST28

| | |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Description | InfiMAN Evolution E5-ST28, 5 GHz subscriber terminal, net throughput up to 670 Mbps, integrated dual-pol antenna, 28 dBi, 5x5 deg |
| Net throughput | up to 670 Mbps |
| Recommended distances | 25+ km |
| Radio technology | MIMO 2x2 (OFDM 64/128) |
| Modulation coding schemes | from BPSK 1/2 to QAM256 5/6 |
| Transmit power | up to 25 dBm |
| Receiver sensitivity | down to -90 dBm |
| Frequency range | 4900-6050 MHz |
| Channel width | 20, 40, 80 MHz |
| Center frequency adjustment step | 125 kHz |
| Duplex scheme | TDD |
| Antenna | 28 dBi |
| Wired Interfaces | 1x GigabitEthernet (RJ45) |



InfiMAN Evolution E5-ST28

| | | | | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|-------------------------|
| Consumption | up to 15 W | | | |
| Power options | 90-240 VAC ~ @ 50/60 Hz, ±43..56 VDC | | | |
| Outdoor Unit (ODU) | 600x600x68 mm, 5.8 kg | | | |
| |  | | | |
| Part Number Options | Prefix | Freq. Band | Ant. | Capacity |
| | <i>E</i> | <i>5</i> | <i>28</i> | <i>20</i> |
| | | | | <i>50</i> <i>670</i> |
| Part Number Example | E5-ST28/06600 50 | | | |
| Packing List | <ul style="list-style-type: none"> - Outdoor unit E5-ST28 - 1 pcs. - Power Supply IDU-CPE-G(24W) - 1 pcs. - Power Cord - 1 pcs. - Cable Gland - 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. | | | |



InfiMAN Evolution E5-ST28

Features

RADIO

- ▶ Voice/RTP Aware Superpacketting
- ▶ DFS
- ▶ Automatic Bitrate Control
- ▶ Automatic Transmit Power Control
- ▶ Automatic Distance Learning
- ▶ Channel Time Adjustment
- ▶ Spectrum Analyzer mode
- ▶ Channel testing tools

NETWORKING

- ▶ Ethernet-over-IP and IP-over-IP tunneling
- ▶ ARP protocol support
- ▶ MAC/IP filtering
- ▶ Full-fledged 2nd layer switch
- ▶ RIPv2 / OSPFv2 /static routing
- ▶ L2/L3 Firewall
- ▶ NAT (multipool, H.323-aware)
- ▶ DHCP client/server/relay

MANAGEMENT FEATURES

- ▶ Various Management Protocols: HTTP, HTTPS, SSH, 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

- ▶ 17 priority queues
- ▶ IEEE 802.1p support
- ▶ IP TOS / DiffServ support
- ▶ Full voice support
- ▶ Traffic limiting (absolute, relative, mixed)
- ▶ Traffic redirection



InfiMAN Evolution E5-ST28

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
 - wind load: 200 kph, survival
- ▶ **Indoor Unit:**
 - 0..+40 °C, 95% humidity, non-condensing

SECURITY FEATURES

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

MAC

- ▶ **Adaptive TDMA air protocol:**
 - Dynamic and fixed air frame duration
 - Subscriber activity aware scheduling
 - Permanent channel testing
- ▶ **Pseudo-radio interface:**
 - unique InfiNet Wireless feature to join InfiNet networks via 3rd party equipment
- ▶ **Automatic over-the-air firmware upgrade**

STANDARD COMPLIANCE

- ▶ **Radio**
 - ETSI EN 301 893 v.2.1.1
 - ETSI EN 302 502 v.2.1.3
 - FCC Part 15.407
- ▶ **EMC**
 - ETSI EN 301 489-1 v.2.2.3
 - ETSI EN 301 489-17 v.3.2.4
 - FCC Part 15 Class B
- ▶ **Safety**
 - EN 62368-1:2014+A11:2017
 - EN60950-22:2017
 - EN62311:2008
- ▶ **RoHS (pending)**
 - EN IEC 63000:2018



InfiMAN Evolution E5-ST28

Radiation diagram

