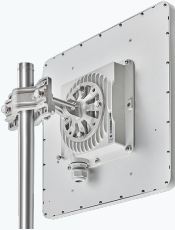


# InfiMAN Evolution E5-ST28

<b>Description</b>	InfiMAN Evolution E5-ST28, 5 GHz subscriber terminal, net throughput up to 670 Mbps, integrated dual-pol antenna, 28 dBi, 5x5 deg
<b>Net throughput</b>	up to 670 Mbps
<b>Recommended distances</b>	25+ km
<b>Radio technology</b>	MIMO 2x2 (OFDM 64/128)
<b>Modulation coding schemes</b>	from BPSK 1/2 to QAM256 5/6
<b>Transmit power</b>	up to 25 dBm
<b>Receiver sensitivity</b>	down to -90 dBm
<b>Frequency range</b>	4900-6050 MHz
<b>Channel width</b>	20, 40, 80 MHz
<b>Center frequency adjustment step</b>	125 kHz
<b>Duplex scheme</b>	TDD
<b>Antenna</b>	28 dBi
<b>Wired Interfaces</b>	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"> <li>- Outdoor unit E5-ST28 - 1 pcs.</li> <li>- Power Supply IDU-CPE-G(24W) - 1 pcs.</li> <li>- Power Cord - 1 pcs.</li> <li>- Cable Gland - 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-85S Mounting kit - 1 pcs.</li> <li>- Quick Start Guide - 1 pcs.</li> </ul>			



# InfiMAN Evolution E5-ST28

## Features

### RADIO

- ▶ Voice/RTP Aware Superpacketing
- ▶ 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

