



Description	InfiMAN Evolution E6-ST28, 6 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 -91 dBm
Frequency range	4900-6425 MHz
Channel width	20, 40, 80 MHz
Center frequency adjustment step	125 kHz
Duplex scheme	TDD
Antenna	28 dBi
Wired Interfaces	1x GigabitEthernet (RJ45)



Consumption	up to 15 W					
Power options	90-240 VAC ~ @ 50/60 Hz, ±4356 VDC					
Outdoor Unit (ODU)	600x600x68	600x600x68 mm, 5.8 kg				
Part Number Options	Prefix	Freq. Band	Ant.	Capacity		
	E	6	28	20 50 670		
Part Number Example	E6-ST28/071	E6-ST28/07100 50				
Packing List	 Outdoor unit E6-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. 					





PRODUCT DATASHEET

InfiMAN Evolution E6-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



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





Radiation diagram







