



Description	InfiMAN Evolution E5-ST23, 5 GHz subscriber terminal, net throughput up to 670 Mbps, integrated dual-pol antenna, 23 dBi, 10x10 deg			
Net throughput	up to 670 Mbps			
Recommended distances	up to 15 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	23 dBi			
Wired Interfaces	1x GigabitEthernet (RJ45)			





Consumption	up to 15 W					
Power options	90-240 VAC ~ @ 50/60 Hz, ±4356 VDC					
Outdoor Unit (ODU)	305 x 305 x 66 mm, 1.75 kg					
Part Number Options	Prefix	Freq. Band	Ant.	Capacity 20		
	Ε	5	23	50 670		
Part Number Example	E5-ST23/058	E5-ST23/05800 50				
Packing List	 Outdoor unit E5-ST23 - 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-85 Mounting kit - 1 pcs. Quick Start Guide - 1 pcs. 					







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

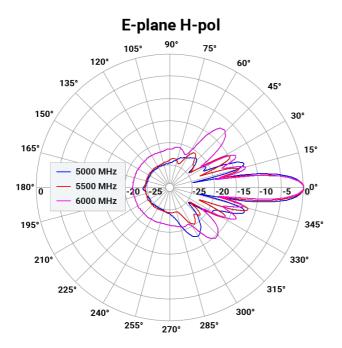
STANDARD COMPLIANCE

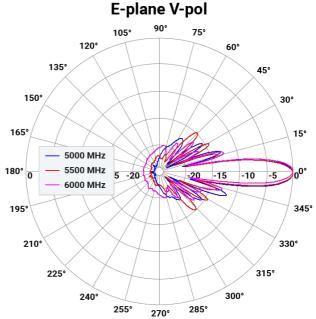
- Radio
 - ETSI EN 301 893 v.2.1.1
 - ETSI EN 302 502 v.2.1.3
 - FCC Part 15.407
- **▶** EMC
 - ETSI EN 301 489-1 v.2.2.3
 - ETSI EN 301 489-17 v.3.2.4
 - FCC Part 15 Class B
- Safety
 - EN 62368-1:2014+A11:2017
 - EN60950-22:2017
 - EN62311:2008
- ▶ RoHS (pending)
 - EN IEC 63000:2018





Radiation diagram





H-plane H-pol 105° 75° 120° 60° 135° 45° 150° 30° 15° 5000 MHz 5500 MHz 180° -<u>2</u>0 -15 -10 -5 345° 195° 210° 330° 225° 315° 300° 255° 285° 270°

