


# InfiMAN Evolution E5-ST23

<b>Description</b>	InfiMAN Evolution E5-ST23, 5 GHz subscriber terminal, net throughput up to 650 Mbps, integrated dual-pol antenna, 23 dBi, 10x10 deg
<b>Net throughput</b>	up to 650 Mbps
<b>Recommended distances</b>	up to 15 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 -91 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>	23 dBi
<b>Wired Interfaces</b>	1x GigabitEthernet (RJ45)



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Consumption	up to 15 W
Power options	90-240 VAC ~ @ 50/60 Hz, ±43..56 VDC
Outdoor Unit (ODU)	305 x 305 x 66 mm, 1.75 kg
	
Part Number Example	E5-ST23
Packing List	<ul style="list-style-type: none"> <li>- Outdoor unit E5-ST23 - 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-85 Mounting kit - 1 pcs.</li> <li>- Quick Start Guide - 1 pcs.</li> </ul>



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## 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, 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



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### ENVIRONMENTAL

- ▶ **Outdoor Units:**
  - operating temperature range -40..+60°C, 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 (pending)**
  - ETSI EN 301 893 v.2.1.1
  - ETSI EN 302 502 v.2.1.1
  - FCC Part 15.247
- ▶ **EMC (pending)**
  - ETSI EN 301 489-1
  - ETSI EN 301 489-17
  - FCC Part 15 Class B
- ▶ **Safety (pending)**
  - ETSI EN 60 950-1:2006
- ▶ **RoHS (pending)**
  - Directive 2011/65/EU

