INFINET wireless

InfiMAN Evolution E5-STE

Description	InfiMAN Evolution E5-STE, 5 GHz subscriber terminal, net throughput up to 670 Mbps, 2x N-type (F) connectors for external antenna
Net throughput	up to 670 Mbps
Recommended distances	30+ 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
Wired Interfaces	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)	180x190x86 mm, 1.2 kg

	Prefix	Freq. Band	Capacity
Part Number Options	E	5	20 50 670

Part Number Example	E5-STE/05900|50
Packing List	– Outdoor unit E5-STE - 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.

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InfiMAN Evolution E5-STE

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

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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