InfiMAN Evolution E5-BSQ

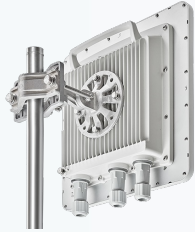|	
Description	InfiMAN Evolution E5-BSQ, 5 GHz base station sector, net throughput up to 650 Mbps, integrated dual-pol beamforming antenna, 21 dBi, 90x8 deg (20 deg Az-steerable beam)
Net throughput	up to 650 Mbps
Recommended distances	up to 30 km
Radio technology	MIMO 2x2 (OFDM 64/128)
Modulation coding schemes	from BPSK 1/2 to QAM256 5/6
Transmit power	up to 27 dBm
Receiver sensitivity	down to -93 dBm
Frequency range	4900-6050 MHz
Channel width	20, 40, 80 MHz
Center frequency adjustment step	1 MHz
Duplex scheme	TDD
Antenna	21 dBi
Wired Interfaces	1x GigabitEthernet, SFP, SYNC

InfiMAN Evolution E5-BSQ

Consumption	up to 35 W
Power options	90-240 VAC ~ @ 50/60 Hz, ±43..56 VDC
Outdoor Unit (ODU)	371 x 371 x 90 mm, 4.4 kg
Part Number Example	E5-BSQ
Packing List	– Outdoor unit E5-BSQ - 1 pcs. – Power Supply IDU-BS-G(60W) - 1 pcs. – Power Cord - 1 pcs. – Cable Gland for RJ-45 - 2 pcs. – Cable Gland for optical cable - 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-BSQ

Features

RADIO

- Dynamic Frequency Selection
- Automatic Bitrate Control
- Automatic Transmit Power Control
- Automatic Distance Learning
- Channel Time Adjustment

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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Features

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)**
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