

InfiMAN Evolution E5-BSI

Description	InfiMAN Evolution E5-BSI, 5 GHz base station sector, net throughput up to 800 Mbps, integrated dual-pol antenna, 16 dBi, 90x8 deg
Net throughput	up to 800 Mbps
Recommended distances	up to 20 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	16 dBi
Wired Interfaces	1x GigabitEthernet, SFP, SYNC





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Consumption	up to 20 W
Power options	90-240 VAC ~ @ 50/60 Hz, ±4356 VDC
Outdoor Unit (ODU)	371 x 371 x 90 mm, 4.4 kg
Part Number Example	E5-BSI
Packing List	 Outdoor unit E5-BSI - 1 pcs. Power Supply IDU-CPE-G(24W) - 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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PRODUCT DATASHEET

InfiMAN Evolution E5-BSI

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 / Di Serv 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

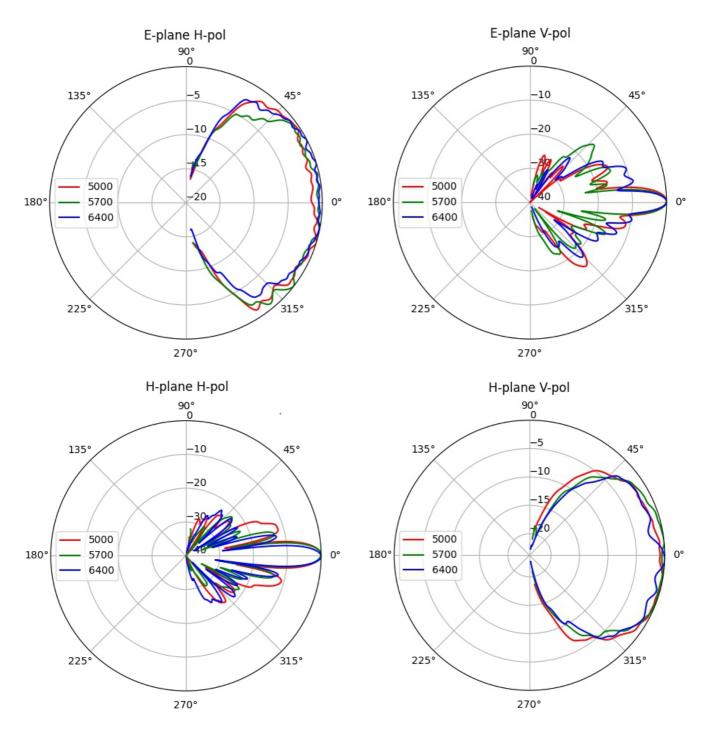
- ETSI EN 301 489-1 v.2.2.3
 - ETSI EN 301 489-17 v.3.2.4
 - FCC Part 15 Class B
- Safety
 - EN 62368-1:2014+A11:2017
 - EN60950-22:2017
 - EN62311:2008
- RoHS (pending)
 - EN IEC 63000:2018





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Radiation diagram





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