



EC-Multipoint 4.9 - 6.4 GHz Frequency Bands

Key Features

- ✓ Multiple frequency bands 4,9 6,05 GHz and 6,05 6,4 GHz
- ✓ Base station sector capacity 240 Mbps using 40 MHz channel
- ✓ Supports channel width 5, 10, 20, 40 MHz
- ✓ Advanced network features VLAN, 16 priority QoS
- ✓ Enhanced Non Line of Sight range
- ✓ Integrated sector antenna base stations allows maximum performance and quick and easy installation
- ✓ Wide range of subscriber terminals with license upgrade option

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

ENVIRONMENTAL

- ✓ Outdoor Units: -40..+60°C, 100% humidity, condensing
- ✓ Indoor Unit: 0..+40°C,
 95% humidity, non-condensing

NETWORKING

- ✓ Ethernet-over-IP tunneling
- ✓ ARP protocol support
- ✓ MAC/IP filtering
- ✓ Full-fledged 2nd layer switch
- ✓ RIPv2 / OSPFv2 /static routing
- ✓ Tunneling (Ethernet-over-IP, IP-over-IP)
- ✓ L2/L3 Firewall
- ✓ NAT (multipool, H.323-aware)
- ✓ DHCP client/server/relay

QUALITY-OF-SERVICE

- √ 16 priority queues
- / IEEE 802.1p support
- ✓ IP TOS / DiffServ support
- ✓ Full voice support
- ✓ Traffic limitin (absolute, relative, mixed)
- ✓ Traffic edirection

STANDARD COMPLIANCE

- ✓ Radio
 - EN 301 893 v.1.7.1
 - EN 302 502 v.1.2.1
 - FCC part 15.247
- ✓ EMC
 - EN 301 489-1
 - EN 301 489-17
 - FCC Part 15 Class B
- √ Safety
 - ETSI EN 60 950-1:2006
- ✓ RoHS
 - Directive 2002/95/EC

SECURITY FEATURES

- ✓ Storm / flood protection
- ✓ Password protection
- ✓ Secure command-line access
- ✓ via SSH protocol



Technical Specifications

SYSTEM COMPONENT	EC-Multipoint Base Stations		
Model	H5B-A	H5B-C	S5B-A
Antenna	• 16 dBi dual-pol integrated 90 degrees antenna	• 2 x N-type (Female) connectors	• 16 dBi dual-pol integrated 90 degrees antenna
Performance	Up to 240 Mbps sector net throughput		Up to 150 Mbps sector net throughput
Distance	Middle-to-long range (35+ km)	Middle-to-long range (20+ km)	Middle range (up to 15-20 km)
Frequency Bands / Antennae	4.9 – 6.0 GHz / Integrated 16 dBi dual-pol integrated 90 degrees sector antenna 6.0 – 6.4 GHz / Integrated 16 dBi dual-pol integrated 90° sector antenna	• 4.9 – 6.0 GHz / Connectorised Antenna (2 x N-type (Female) connectors) • 6.0 – 6.4 GHz / Connectorised Antenna (2 x N-type (Female) connectors)	• 4.9 – 6.0 GHz / Integrated 16 dBi dual-pol integrated 90° sector antenna
Radio	 Radio technology: MIMO 2x2 with OFDM 64/128 Modulation types: BPSK ½ to QAM64 5/6 Duplex method: TDD Transmit power. up to 23 dBm Receiver sensitivity: -6797 dBm Channel bandwidth: 5/10/20/40 MHz 		 Radio technology: MIMO 2x2 with OFDM 64/128 Modulation types: BPSK ½ to QAM64 5/6 Duplex method:TDD Transmit power. up to 18 or 23 dBm (model-dependent)
Wired interfaces	• Gigabit Ethernet port (10/100/1000 Base-T) RJ-45 connector Serial port (RS-232)		2 x Fast Ethernet (10/100 Base-T) RJ-45 connector PoE output at the second Ethernet port
Power consumption	Consumption: Up to 12 Watts Power options: 110-240 VAC @ 50/60 Hz ±4356 VDC IEEE 802.3 at		• Consumption: Up to 7 Watts • Power options: 110-240 VAC @ 50/60 Hz +956 VDC



Technical Specifications

SYSTEM COMPONENT	EC-Multipoint Subscriber Terminals			
Model	S5-A	S5-C	S5T-A	
Frequency Bands / Antenna	• 4.9 – 6.0 GHz / Integrated 21, 23 or 28 dBi Dual-polarization Antenna • 6.0 – 6.4 GHz / Integrated 24 or 27 dBi Dual-polarization Antenna	• 4.9 – 6.0 GHz / Connectorised Antenna (2 x N-type connectors) • 6.0 – 6.4 GHz / Connectorised Antenna (2 x N-type connectors)	• 4.9 – 6.0 GHz / Integrated 19 dBi Dual-polarization Antenna • 6.0 – 6.4 GHz / Integrated 19 dBi Dual-polarization Antenna	
Performance	8 Mbps (up to 8 Mbps net) 50 Mbps (up to 50 Mbps net) 300 Mbps (up to 180 Mbps net) License upgradeable			
Distance	21 dBi antenna: middle range (up to 8-10 km) 23 or 24 dBi antenna: middle-to-long range (10-12 km) 28 dBi antenna: long range (15-25 km)	Middle-to-long range (35+ km with external high-gain antenna)	• Short-to-middle range (up to 5-7 km)	
Radio	 Radio technology: MIMO 2x2 with OFDM 64/128 Modulation types: BPSK ½ to QAM64 5/6 Duplex method: TDD Transmit power. -Up to 18 or 23 dBm (4.9-6.0 GHz models) -Up to 23 dBm (6.0-6.4 GHz models) Receiver sensitivity6797 dBm Frequency bands: 4.9-6.0 GHz and 6.0-6.4 GHz Channel bandwidth: 5/10/20/40 MHz 			
Wired interfaces	2 x Fast Ethernet (10/100 Base-T) RJ-45 connector PoE output at the second Ethernet port		• 1 x Fast Ethernet (10/100 Base-T) RJ-45 connector	
Power consumption	• Consumption: Up to 7 Watts • Power options: 110-240 VAC @ 50/60 Hz +956 VDC			