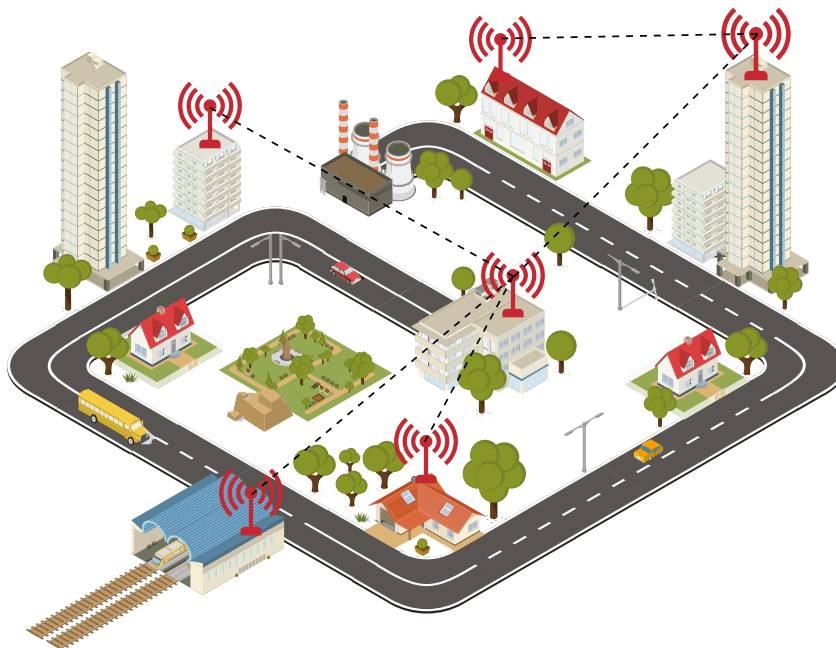




# EC SYSTEM

## EC-Multipoint

6.0 – 6.4 GHz  
Frequency Bands



**EC SYSTEM** professional High Capacity point to multipoint microwave units allow radio data transmission up to 300 Mb throughput per sector. All models use MIMO technology with Adaptive Multipoint Access Protocol to improve the communication performance. The units have incorporated L2/L3 routers, allows GPS synchronization. Our base stations and subscriber terminal software gives to the customer the possibility of upgrade their networks adding transmission capability.

**EC SYSTEM** is the choice of excellence for Public Safety Authorities, all type of operators and professional applications that require guaranteed bandwidth per subscriber. The models with integrated antennas and a dedicated PoE port for video camera connectivity reduce the cost and simplify the CCTV camera installation.

**EC SYSTEM** is a unique solution for operators to deliver Fast Ethernet data, voice and video services over long distances providing a wide range of networking features and maintaining strict QoS control.

## Applications

- ✓ Triple-play services for Wireless ISPs operating in licensed bands
- ✓ Guaranteed-availability CCTV and video surveillance networks
- ✓ Long-range rural connectivity





**EC SYSTEM**

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## Key Features

- ✓ Frequency bands 6,0 - 6,4 GHz
- ✓ Spectral efficiency of 6,5 Bit/s/Hz
- ✓ Supports channel width 3,5/7/10/14/15/20/28/30/40 MHz
- ✓ Advanced network features VLAN, 16 priority QoS
- ✓ Enhanced Non Line of Sight range
- ✓ High power base stations
- ✓ Integrated sector antenna base stations allows maximum performance and quick and easy installation
- ✓ Wide range of subscriber terminals with license upgrade option
- ✓ Subscriber terminal optimized for CCTV installations with integrated PoE for camera supply

## Benefits

- ✓ Best in class Price/Functionality ratio
- ✓ Faster ROI using more capacity in less spectrum
- ✓ Savings on third party networking equipment
- ✓ Full control of simultaneous data, voice and video services
- ✓ Very low latency and jitter
- ✓ Easy and fast deployment
- ✓ High MTBF, less OPEX

6 GHz Base Station				6 GHz Subscriber Terminals	
Model	H6B-A	H6B-C	S6B-A	S6T-A	S6T-C
<b>Antenna</b>	<ul style="list-style-type: none"> <li>integrated 19 dBi dual-pol 90° sector antenna</li> </ul>	<ul style="list-style-type: none"> <li>2 x N-type connectors for external antenna</li> </ul>	<ul style="list-style-type: none"> <li>integrated 19 dBi dual-pol 90° sector antenna</li> </ul>	<ul style="list-style-type: none"> <li>19 and 27 dBi dual-pol integrated antenna</li> </ul>	<ul style="list-style-type: none"> <li>2 x N-type connectors for external antenna</li> </ul>
<b>Performance</b>	<ul style="list-style-type: none"> <li>Up to 240 Mbps sector net throughput</li> </ul>		<ul style="list-style-type: none"> <li>40 Mbps (up to 40 Mbps net per sector)</li> <li>300 Mbps (up to 150 Mbps net per sector)</li> <li>License upgradeable</li> </ul>	<ul style="list-style-type: none"> <li>8 Mbps (up to 8 Mbps net)</li> <li>50 Mbps (up to 50 Mbps net)</li> <li>300 Mbps (up to 180 Mbps net)</li> <li>License upgradeable</li> </ul>	
<b>Distance</b>	<ul style="list-style-type: none"> <li>Middle-to-long range (in excess of 20 km)</li> </ul>	<ul style="list-style-type: none"> <li>Middle-to-long range (in excess of 20 km)</li> </ul>	<ul style="list-style-type: none"> <li>Short-to-Middle range (up to 12 km)</li> </ul>	<ul style="list-style-type: none"> <li>Short-to-Middle range (up to 12 km)</li> </ul>	<ul style="list-style-type: none"> <li>Middle-to-long range (in excess of 20 km)</li> </ul>
<b>Radio</b>	<ul style="list-style-type: none"> <li>Transmit power: up to 23 dBm</li> <li>Receiver sensitivity: -67..-97 dBm</li> <li>Frequency bands: <ul style="list-style-type: none"> <li>› 9.3-9.4 GHz</li> </ul> </li> <li>Channel bandwidth: 3.5/7/10/14/15/20/28/30/40 MHz</li> <li>Centre frequency adjustment step: 125 kHz</li> <li>Channel duplex: TDD</li> </ul>				
<b>Wired interfaces</b>	<ul style="list-style-type: none"> <li>Gigabit Ethernet port (10/100/1000 Base-T) RJ-45 connector</li> <li>Serial port (RS-232)</li> </ul>		<ul style="list-style-type: none"> <li>2x Fast ethernet (10/100 Base-T) PoE output at the second Ethernet port RJ-45 connector</li> </ul>	<ul style="list-style-type: none"> <li>2x Fast ethernet (10/100 Base-T) PoE output at the second Ethernet port RJ-45 connector</li> </ul>	
<b>Power consumption</b>	<ul style="list-style-type: none"> <li>Consumption: Up to 12 Watts</li> <li>Power options: 110-240 VAC @ 50/60 Hz ±43..56 VDC IEEE 802.3 at</li> </ul>		<ul style="list-style-type: none"> <li>Consumption: Up to 7 Watts</li> <li>Power options: 110-240 VAC @ 50/60 Hz ±9..56 VDC</li> </ul>	<ul style="list-style-type: none"> <li>Consumption: Up to 7 Watts</li> <li>Power options: 110-240 VAC @ 50/60 Hz ±9..56 VDC</li> </ul>	

# EC-Multipoint

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## Specification

### RADIO

- ✓ Voice/RTP Aware Superpacketting
- ✓ Automatic Bitrate Control
- ✓ Automatic Transmit Power Control
- ✓ Automatic Distance Learning
- ✓ Channel Time Adjustment
- ✓ Spectrum Analyser mode
- ✓ Channel testing tools

### ENVIRONMENTAL

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

### MAC

- ✓ Dynamic adaptive polling
- ✓ Pseudo-radio Interface
- ✓ Unique feature to join EC SYSTEM networks via third party equipment (Wired Ethernet segments, IP clouds)
- ✓ Automatic over-the-air firmware upgrade

### MANAGEMENT FEATURES

- ✓ Command-line interface for in-depth configuration and diagnostics
- ✓ SNMPv1 / SNMPv3 support (MIB II, private MIB)
- ✓ Configurable SNMP Traps

### QUALITY-OF-SERVICE

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

### SECURITY FEATURES

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