PROFESSIONAL WIFI / FIXED WIRELESS

SECTOR E90

WiFi 7 sector base station

Build point-to-multipoint networks with an integrated 90° horn antenna, WiFi 7 radio and 2.5 Gigabit copper and optical connectivity.



Focused sector coverage

18 dBi asymmetrical horn antenna with dual-linear polarization.

High-capacity radio

2x2 MIMO and channel widths up to 320 MHz.

Outdoor construction

IP67 enclosure, 8 kV surge suppression and flexible PoE or DC power.

2.3 Gbps+	5.76 Gbps	90°	IP67
THROUGHPUT[1]	MAX. PHY RATE[1]	SECTOR COVERAGE	WEATHER PROTECTION

Built for connected outdoor sites.

Campus infrastructure

Connect buildings and remote areas from a central sector radio.

Distributed monitoring

Aggregate wireless links from compatible client radios across a site.

Flexible integration

Use 2.5 GbE RJ45 or a 2.5G SFP interface for the upstream network.

1. PHY rate is theoretical. Actual throughput and range depend on channel width, client configuration, line of sight and operating conditions.

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POINT-TO-MULTIPOINT DEPLOYMENT

One sector. Multiple destinations.

Connect a nearby site and a more distant location from the same SECTOR E90 base station.



Conceptual deployment · not to scale. Link distance depends on client configuration and site conditions.

Network configuration

Wireless modes	AP WDS / Client WDS
Network modes	Bridge / Router
VLAN	IEEE 802.1Q
DHCP	Server / Client

Management & security

Management	Web interface / SNMP / TR-069
Firewall	Port forwarding / DMZ / ACL filtering
Wireless security	WPA-PSK / WPA2-PSK / WPA/WPA2-PSK (AES / TKIP)

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TECHNICAL SPECIFICATIONS

SECTOR E90

Radio & antenna

Wireless standard	WiFi 7 / IEEE 802.11be
Operating frequency	5.18-6.415 GHz
Channel widths	20 / 40 / 80 / 160 / 320 MHz
Spatial diversity	2x2 MIMO
Client capacity	100+
Maximum transmit power	27 dBm
Integrated antenna	18 dBi asymmetrical horn
Beamwidth at -6 dB	90° horizontal / 25° vertical
Polarization	Dual linear
Antenna frequency range	4.9-7.125 GHz
Antenna material	Die-cast aluminum

Ordering information

Model	SECTOR E90
Package contents	Available on request

Hardware & power

Processor	Qualcomm quad-core A53 at 1.5 GHz
Ethernet	1x 2.5 GbE RJ45, PoE input
Optical interface	1x 2.5G SFP
Power input	802.3at PoE+, 22-56 V; or 12 V DC
Power consumption	<16 W
Surge suppression	8 kV
Status LEDs	Power / System / WiFi
Reset	Reset button

Mechanical & environmental

Weather protection	IP67
Antenna dimensions	500 x 340 x 100 mm
Weight	2.5 kg
Operating temperature	-30 to +60 °C
Mounting	Pole mount, 30-50 mm diameter

Available frequencies, channel widths and transmit power depend on the country of operation. Use shielded CAT6/CAT6A or higher cabling and an appropriate grounding connection.

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