

BELAIR 20EO

Cost-Effective Outdoor Wireless Access Point

The Ericsson Wi-Fi product portfolio supports the vision of providing seamless, high-quality user experience regardless of location or device. Within an operator's heterogeneous network strategy, the effective use of unlicensed Wi-Fi spectrum can provide a valuable complement to the carrier's licensed spectrum.

Adding standards-based beam forming, GigE ports (1 WAN port with PoE-in and 1 LAN port), integrated or external antennas and full 802.11n compliance 802.11n-2009), the BelAir 20EO comes in a compact, streamlined package that addresses both Enterprise and Service Provider deployments in:

- Service Provider Hot Zones
- 3G Offload
- Stadiums and Arenas
- Campus
- Multiple Dwelling Units (MDUs)

The BelAir 20EO continues to lead with the industry's highest performance and most flexible outdoor access node design.

Offering all the features and management of the other Ericsson Wi-Fi products, the BelAir 20EO has been optimized for managed Hot Zone and offload applications, with Edge Policy Enforcement using centralized control and a true Plug-and-Play architecture - with the latest fully compliant 802.11n, it's ideal for streaming video, P2P media and other data-intensive application.



The BelAir 20EO provides connectivity between networks, enabling true standards-based mobility and connectivity for users moving inside or outside.

The BelAir 20EO has a dual-radio design and includes one 5GHz and one 2.4GHz radio, both of which are IEEE 802.11n-compliant and each radio supports full 2x2 MIMO

operation with 2 data streams. The BelAir 20EO also supports 802.11a/b/g operation for full compatibility with legacy clients.



Security Features

- WPA and WPA2 Enterprise and Personal compliant
- 802.1x (RADIUS) and EAP authentication
- WEP 64 and 128 bit encryption
- TKIP / MIC encryption
- AES encryption per IEEE 802.11i
- MAC address Access Control Lists (ACL's)
- Wireless client blacklist
- Inter-client communication control
- Denial of Service (DoS) attack prevention (including Deauthentication DoS)
- Honeypot detection
- MAC spoofing protection
- RADIUS Authentication and Accounting is supported per IETF RFC 3865 and RFC 2866

Performance Features

- Standards-Based Beamforming
- MIMO
- 40 MHz Bandwidth
- Space-Time Block Coding (STBC)
- Improved Maximal Ratio Combining (MRC)
- Maximum Likelihood Demodulation (MLD)
- Low-Density Parity Check (LDPC)
- Aggregated NAC PDU (A-MPDU)
- Wireless Multimedia (WMM and WMM-PS)

Management

Device-level fault, configuration and performance management can be performed via the CLI and GUI interfaces, while BelView NMS adds network-level fault correlation and performance management support. Firmware upgrade with support for automatic rollback is supported via the management interfaces. Local and remote management interfaces can be accessed via open (Telnet / HTTP) or optionally using secure (SSH / HTTPS) protocols.

The products also support SNMP v1/v2c/v3 and TR-069 management interfaces for use with any compliant management system. Standard MIBs supported include MIB-II, SNMPv2, 802.11, Ethernet-like, Interface Group. User accounts with multiple privilege levels can be supported.

TECHNICAL SPECIFICATIONS BELAIR 20EO

ELECTRICAL SPECIFICATIONS

Power requirements:

Site Power - PoE Nominal Input Voltage: 48V/0.35A
(802.3af/at)

Backhaul Requirements:

All products support integrated wireless point-to-point, point-to-multipoint or mesh backhaul. Gigabit Ethernet WAN wired backhaul also supported.

Transmission:

1 10/100/1000Base-TX (Cat.5 RJ-45) WAN port
1 10/100/1000Base-TX (Cat.5 RJ-45) LAN port
IEEE 802.1D Bridging, IEEE 802.1Q VLANs, IEEE 802.1w RSTP and IEEE 802.1p QoS
Wide range of L2 and L3 VPN protocols to support mobility
Support for GTP and PMIP for mobile core integration

Access point capacity per radio:

2x2 MIMO with 2 spatial streams (300 Mbps peak PHY rate per radio)
600 Mbps peak PHY rate per access point

MECHANICAL SPECIFICATIONS

Mechanical Dimensions: (W x D x H): 19x 7.5 x 29.5 cm

Weight: 2 kg

ENVIRONMENTAL SPECIFICATIONS

Temperature range:

Operating: -20° to +50 °C
Storage: -40° to +80 °C

Mounting requirements:

Variety of outdoor, indoor, roof, pole, wall, pedestal, and cabinet mounting options