

## BelAir50C Wireless Mesh Node

BelAir Networks offers the only complete and comprehensive portfolio of wireless mesh products. Delivering unprecedented flexibility in the design and future-proof growth of your network, these products support a full spectrum of coverage options from high-speed Internet access and other data services through to high capacity, high performance networking that addresses a full mix of video, wireline-quality voice, tiered business services and cellular backhaul.

The BelAir50C is a single-radio wireless mesh node that can be quickly and economically deployed to deliver the lowest cost broadband coverage. It also integrates seamlessly with BelAir's dual- and multi-radio nodes to deliver three times the performance at the same price as traditional single-radio nodes. This integration ensures deployment flexibility to address current requirements while providing a future-proof evolution as the network grows to accommodate more users and applications.

The BelAir50C features a rugged outdoor enclosure, a 100-Mbps Ethernet port, two 8-dBi omnidirectional antennas and a high-powered Access Radio Module optimized to provide coverage over large areas. Battery back-up power supply, brackets for pole or wall mounting, and a high-performance network processing core are standard on all BelAir50C nodes. The software provides operator-class, network level operation, administration and maintenance (OAM) capabilities and a wealth of security, mobility, and management services. Each BelAir50C provides Wi-Fi access to standard 802.11b- or 802.11g-equipped client devices and connects with other BelAir nodes by forming a wireless multipoint-to-multipoint mesh.



### Wireless

- Single-radio platform
- Access / backhaul radio (IEEE 802.11b/g)
  - Frequency and transmit power:
    - 2.4 to 2.4835 GHz, 36 dBm EIRP
    - 4.900 to 5.000 GHz, up to 30 dBm EIRP
    - 4.940 to 4.990 GHz, up to 30 dBm EIRP
  - 802.11b mode: rates up to 11 Mbps
  - 802.11g mode: rates up to 54 Mbps
  - Receive sensitivity: -100 dBm
  - Diversity
- Layer 2 and Layer 3 mobility

### Antennas

- Dual external 8 dBi omni-directional

- **Low-cost broadband coverage**
- **Quick and easy to deploy and manage**
- **Seamless integration with dual- and multi-radio nodes**

