

WiBACK

WiBACK Node-2-Connect
(Repeater Node v3)
Datasheet

At a Glance

Developed by Fraunhofer FOKUS, the WiBACK technology offers a flexible, self-managing and a cost efficient solution to provide carrier-grade wireless back-haul coverage based on IEEE802.11 hardware.

WiBACK is designed to deliver services providing a high quality of experience. It efficiently bridges the gap between end-users and provider core networks. Sophisticated algorithms dynamically manage the entire backhaul network with respect to topology planning and load distribution. Compared to traditional fixed wireless operator back-haul technologies, the key WiBACK features lead to significantly lower setup (CAPEX) and operational costs (OPEX).

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WiBACK Key Features

- Carrier-Grade Services (Low Latency & Prioritized Voice) via MPLS
- Transparent Ethernet Bridging incl. VLAN (IEEE802.1q) Trunking
- Self-Management/-Healing/-Maintenance
- Low Energy Footprint, Solar-Ready
- Network Monitoring
- End-to-End Encryption
- Multi Node Support (Clustering of multiple nodes via Ethernet)

WiBACK Repeater Node Facts

| Interfaces | |
|---------------------------|--|
| 2 x RJ45 | 10/100Tx Ethernet Serial RS232 |
| 2 x Wireless LAN | High power backhaul interfaces |
| System | |
| Architecture | Embedded Linux, x86 Lower Power AMD Geode 500MHz/256MB |
| WLAN backhaul radios | |
| Type | Atheros chipset, IEEE802.11a/g/n, 2x2 MIMO, 20/40 MHz |
| Frequency range | 2.400 - 2.472 GHz or 5.180 - 5.800 GHz unlicensed 400-900 MHz, or 3.x GHz licensed (optional) |
| Output power/ sensitivity | Up to 25 dBm / -97 dB |
| Physical | |
| Dimensions / weight | 200 mm x 140 mm x 76 mm; 1.4 kg |
| Enclosure | NEMA-67, Aluminum, weather and UV Protected, 4x antenna N-Type female, outdoor, mast mounting kit included |
| LED | Power and status signaling |
| Power | |
| Supply | Passive PoE, 7-20 V, Solar-Power ready |
| Consumption | Maximum 9 W, average 6 W |
| Optional | Fully integrated solar charger |