NFT 2N
High performance dual-radio indoor AP
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The Infinity NFT 2N is a high-performance dual-radio access point from LigoWave, equipped with two 3x3 MiMo 802.11N radios operating in the 2.4 and 5 GHz bands concurrently. A dedicated Qualcomm Atheros AR9558 CPU (700 MHz) makes this access point ideal for faster connectivity and high capacity demanding applications (450 Mbps radio rate). The 802.3at power over Ethernet standard supports easy and quick deployment using PoE switches.

OS

The dual-radio indoor access point runs the Infinity OS - a highly functional and easy to use operating system. This powerful and flexible operating system ensures flawless operation of LigoWave hardware devices and effortless setup for those deploying the networks.

• Responsive HTML 5 based GUI
• 256 concurrent clients
• 16 virtual networks (SSID+VLAN)
• IPv6 support
• WNMS compatible

WNMS

WNMS is a FREE enterprise grade Wireless Network Management System. A single software solution simplifies a large number of management and monitoring tasks for the network administrator. LigoWave’s comprehensive network management system supports several thousand of nodes. Multiple networks may be maintained and monitored using one server. A rich feature set helps to diagnose network problems effectively, visualize networks on a map, perform scheduled firmware upgrades automatically, track states of devices, get failure alerts, and collect statistics. The Web-based system environment supports multi-user accounts. Several administrators can manage different networks on the same server, without having access to each other’s equipment. WNMS is available as a stand-alone version for Linux and Windows servers, as a cloud-based system and as a mobile application for Android devices.

WNMS MOBILE

WNMS Mobile is an Android based client application for devices monitored by a WNMS (Wireless Network Management System) server. WNMS Mobile is designed for network operating center coordinators, maintenance staff, and support engineers.

• Responsive HTML 5 based GUI
• Lists the availability of networks and devices
• Marks each device location on a map
• Registers the device into WNMS. The application can use the coordinates from the Android device
• Lists all device alerts
• Allows ToDo list for each user
• Notifies responsible person through push notification service when task is assigned, reassigned, completed or rejected
Specifications

**Wireless**
- WLAN standard: IEEE 802.11 a/b/g/n
- Radio mode: MIMO dual 3x3
- Operating mode: Access point
- Radio frequency band:
  - 2.402 - 2.484 GHz (country dependent)  
    FCC 2.412 - 2.462 GHz (CH1-CH11)
  - 5.170 - 5.875 GHz (country dependent)  
    FCC 5.745 - 5.825 GHz (CH149-CH161)
- Transmit power:
  - 2.4 GHz: 20 dBm @ MCS23 (FCC max certified TX power: 25dBm)
  - 5 GHz: 20 dBm @ MCS23 (FCC max certified TX power: 23.5dBm)
- Channel size: 20, 40 MHz
- Modulation schemes: 802.11 a/g/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
  802.11 b: DSS (CCK, DQPSK, DBPSK)
- Data rates:
  - 802.11 n @ 40 MHz: 450, 405, 360, 270, 180, 135, 90, 45 Mbps
  - 802.11 a/g @ 20 MHz: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
  - 802.11 b @ 20 MHz: 11, 5.5, 2, 1 Mbps
- Duplexing scheme: Time division duplex
- Wireless security: WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL

**Antenna**
- Type: 6x internal omni-directional antennas
- Gain:
  - 2.4 GHz: 3 dBi
  - 5 GHz: 3 dBi
- Coverage radius: 100 meters (328 ft)

**Wired**
- Interface: 10/100/1000 Base-T, RJ45

**Networking**
- Operating mode: Bridge
- Management IPv4: Static, dynamic
- Management IPv6: Static, dynamic stateless, dynamic stateful
- Secondary IPv4: Supported
- VLAN: 802.1Q for management and data
- Virtual SSID: 8 per each radio
- Client isolation: Supported

**Services**
- Services: SNMP server, NTP client, WNMS client
**Power**
- **Power method**: 802.3af with passive PoE (48V) support; additional 12V DC input
- **Power supply**: 100 – 240 VAC to 48 VDC PoE (included)
- **Power consumption (max)**: 8 W

**Management**
- **System monitoring**: SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap

**Physical**
- **Dimensions**: Length 180 mm (7.0’’), width 180 mm (7.0’’), height 45 mm (1.7’’)
- **Weight (without mounting)**: 450 g (15.8 oz)
- **Mounting**: Suspended ceiling mount and wall mount

**Environmental**
- **Operating temperature**: -10°C (14 F) ~ +55°C (+131 F)
- **Humidity**: 0 ~ 90 % (non-condensing)

**Regulatory**
- **Certification**: FCC/IC/CE

**Package contains**
- Wall mount kit
- Suspended ceiling mount kit
- 48V PoE adapter and cable