

## HauteSpot Pseudowire-less TDM Routing System

The HauteSpot Pseudowire-less TDM Routing System is a wireless solution for routing both TCP/IP Ethernet and emulated wire TDM links over licensed or unlicensed RF spectrum at distances of up to 20 miles.

Up to 4 T-1 or 3 E-1 links, plus Ethernet can be supported on a single 20MHz RF channel in point to point, point to multipoint or repeated configurations. Allowing for remote TDM service virtually anywhere for very little capital cost.

This is the ideal solution for replacing leased circuits or adding capacity to remote locations.



HR-WRAPPW

### Applications

- T-1/E-1 backhaul for remote cellular sites
- Leased line replacement
- Land Mobile trunking
- Radio station transmitter-station links
- Remote PBX expansion where copper or fiber are not available
- Temporary TDM links for events or emergency operation
- Building to building links for emergency backup of TDM
- Emergency Command Vehicles

### Functions

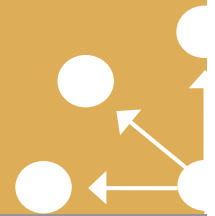
- Fully routed wireless multi-services network using either licensed and unlicensed RF frequencies
- TDM Circuit Emulation
- Ethernet TCP/IP connectivity
- Layer 2 or Layer 3 routing with full QoS management and VLAN tagging support
- Jitter buffering and clock emulation
- TDMA-like wireless protocol for point to multipoint operation
- Simple wireless alignment with integrated tools
- Flexible management options for remote alarms/provisioning

### Features

- **Compact.** NEMA4 IP6/7 aluminum outdoor waterproof enclosure, small and lightweight.
- **Sustainability.** 6 Watts (outdoor) total operating power - Can use solar power.
- **TDMA protocol.** The ideal solution for video streaming, where delay variation and jitter must be minimized.
- **Scalability.** Twice the scalability and performance of 802.11 protocols/mesh based devices.
- **Feature Rich.** A complete embedded highly reliable OS and wireless driver stack.
- **Simple Configuration.** Browser management interface.
- **Highly Secure.** AES encryption

### Contact Us

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 Web: www.hautepot.net



## Specifications

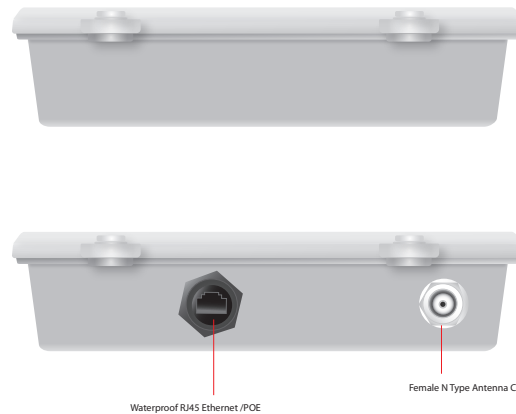
### HR-WRAPPW ODU

#### Radio Module Features

- **Data Rates**
  - OFDM :
    - BPSK. 6Mbps, 9 Mbps
    - QPSK. 12Mbps, 18Mbps
    - 16QAM. 24Mbps, 36Mbps
    - 64QAM. 48Mbps, 54Mbps
  - DSSS: 1, 2, 5.5, 11 Mbps.
- **Channel Width**
  - 5/10/20/40 MHz
- **Network Standards**
  - WECA (Wi-Fi & Wi-Fi5)
  - IEEE 802.11
  - IEEE 802.11a
  - IEEE 802.11g draft
  - IEEE 802.11b draft
  - IEEE 802.11e standard
  - IEEE 802.11f standard
  - IEEE 802.11h standar
  - IEEE 802.11i standard
- **Compliance**
  - FCC Part 15 Class B (modular)
  - ETSI 300.328
  - ETSI 300 826
  - CE mark
  - FCC Part 90Y(modular)
- **Frequency Options**
  - WRAPPW-1: 180-280 MHz\*
  - WRAPPW-2: 2.4 GHz
  - WRAPPW-3: 3.65 GHz
  - WRAPPW-4: 4.9 GHz\*\*
  - WRAPPW-5: 5 GHz
  - WRAPPW-7: 746-794 MHz\*
  - WRAPPW-9: 902-928 MHz
  - WRAPPW-18: 1.7 GHz\*
- **Physical & Envirnmental (outdoor)**
  - 6 Watts
  - 2.7 lbs
  - 8"(W) x 5.5" (L) x 2" (H)
  - 9-20 VDC input
- **Physical & Envirnmental (indoor)**
  - 6 Watts
  - 2.42 lbs (0.6 kg)
  - 1.73" (W) x 8.7" (L) x 5.51" (H)
  - 5VDC @3A (max) with external power adaptor (AC to DC, DC to DC)

\* Export of military use only. Not for commerical use in USA.

\*\* Public safety use only. Requires approval.



Waterproof RJ45 Ethernet /POE

Female N Type Antenna Connector

#### Router Features

- "TDMA-like" protocol for video and TDM performance
- MAC repeater settings for each client (enable/disable for each MAC address)
- MAC Firewall
- Client statistics (current signal level/quality, rate tx/rx, bytes tx/rx, radio rate)
- Authentication via remote RADIUS server using captive portal
- 40 and 128 bit WEP, WPA, and WPA2 support
- IP filtering
- Routing for RIP, BGP, OSPF, Mesh, and Multicast
- DNS relay
- DHCP server or relay
- SNMP/SSH/Telnet/Java Client
- WDS (wireless distribution service) for transparent bridging

#### Hardware Features

- High performance embedded Processor
- Ruggedized outdoor enclosure
- -10°C to 60°C (outdoor) 0°C to 40°C (indoor) operating temperature
- Watchdog timer
- Real Time Clock
- N type RF connector
- Water proof RJ45 ethernet connector
- Pole mount included
- Passive PoE injector and 90-240VAC power supply included
- (4) 10/100BaseT ports
- (1) unpopulated SFP-based 1000BaseSX port
- (1) universal 100/1000BaseX unpopulated SFP-based or 10/100/1000BaseT port
- (4) integrated T1/E1CES (RJ-45)