

HauteMESH[™] Wireless Multi-Technology Router

High Availability Intelligent Router

LESS IS MORE. HauteSpot's products are designed around three principles: multifunction, cost effectiveness, and a small eco footprint.

Always Connected From Anywhere

The HauteSpot HauteMESH[™] router is a breakthrough in IP communication technology. It combines multiple wireless technologies, multiple frequency support, and intelligent mesh routing into one compact, self-configuring appliance. Turn it on and it will find a backhaul connection automatically, it will connect to other HauteMESH units in the area automatically, and it will start sharing the network using standard protocol 802.11a/b/g/n to your local devices automatically.

Designed For Reliability

The HauteMESH architecture is designed to eliminate any single point of failure. Every router has multiple backhaul radio interfaces and can fail-over between any of them. Every router has a local mesh interface and connects to other HauteMESH units at the remote site, allowing routers to share backhaul connections. The remote mesh units can route through each other if their own backhaul connections fail. Client devices can roam between HauteMESH units and retain connectivity. All of this is completely automatic and transparent to the end user.

Extremely Smart

The HauteMESH is an intelligent device. Using a combination of standard routing protocols and programmable "watcher scripts", the HauteMESH is constantly monitoring network conditions, updating routes, and evaluating connections for stability. When a good route is found, the system will stay on it until it fails or a significantly better route is available. This assures performance stability.

Power Efficient & Rugged

The HauteMESH is small, considering its capabilities. With the ability to include up to 5 wireless broadband interfaces and up to 7 USB cellular modem interfaces, there is no lack of expansion capacity. And with a total operating power that is less than 10 Watts (with standard 3 broadband interfaces at typical tx power), the HauteMESH can be run from solar power, wind power, vehicle power, and even battery power. For more extreme environments, the HauteMESH can be mounted in a weatherproof NEMA IP 6/7 type enclosure or portable weatherproof case.

Cost Effectiveness

The HauteMESH is a cost effective solution for future expandability. Units can be ordered with your choice of radio modules installed, but not activated, allowing you to turn on additional capabilities in the future without the need to replace equipment. Add additional USB modems to extend your system to use other cellular carriers at any point in the future.



Applications

- Emergency First Responders
- Police Incidents
- Sports and Outdoor events
- Military Perimeter Security
- Oil and Gas Fields
- Mining and other applications where "bread crumb" (point-to-point-to-point-chaining networks of repeaters) are desirable

Benefits

- Completely automatic, no user intervention required
- Wide range of backhaul and mesh frequencies supported
- Almost every cellular carrier network supported
- 10 Watts total operating power (typical)
- Fully programmable
- Comprehensive configuration
- Free complete network management system
- Compact and lightweight

SPECIFICATIONS 1.1

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.
- MIMO :
 - 20MHz 1Nss
 - 65 Mbps@800GI
 - 72.2 Mbps@400GI (Max.)
 - 20MHz 2Nss
 - 130 Mbps@800GI
 - 144.4 Mbps@400GI (Max.)
 - 40MHz 1Nss
 - 135 Mbps@800GI
 - 150 Mbps@400GI (Max.)
 - 40MHz 2Nss
 - 270 Mbps@800GI
 - 300 Mbps@400GI (Max.)

CHANNEL WIDTH

- 5/10/20/40 MHz

NETWORK STANDARDS

- WECA (Wi-Fi & Wi-Fi5)
- IEEE 802.11, a, b, d, e, f, g, h, i, n, w, y

COMPLIANCE

- FCC Part 15 Class B (modular)
- ETSI 300.328
- ETSI 300 826
- CE mark
- FCC Part 90Y (modular)

HAUTEMESH FAMILY

- 2 ea. 2.4/4.9/5 GHz 2x2 MIMO
- 1 ea. 900 MHz SISO

MODULE OPTIONS

- M-multiband SISO 2.4/4.9/5 GHz
- N-multiband 2x2 MIMO 2.4/4.9/5 GHz
- Z-multiband 3x3 MIMO 2.4/4.9/5 GHz
- 37-3.65** Ghz SISO
- 9-900 MHz SISO
- Others (200MHz to 6000 MHz) are available for Military or government use.

Note:

* 4.9 GHz Public Safety use only. Requires approval.

** 3.65 GHz requires FCC license. Contact HauteSpot for details.

HARDWARE FEATURES

- High performance embedded processor
- 1 ea. 10/100/1000 Base-TX Ethernet port (with auto MDI/M DIX) w/PoE in
- 2 ea. additional 1000 Base-TX Ethernet port (with auto MDI/M DIX) w/o PoE in
- Reverse voltage and transient protection
- -20°C to 70°C operating temperature
- On board storage
- Voltage and temperature monitor
- Watchdog timer
- Real Time Clock
- Up to 20 RPSMA RF connectors
- Passive PoE injector with 90-240VAC to 18VDC input power supply included
- European power pins optional

PHYSICAL & ENVIRONMENTAL OUTDOOR:

- 10 Watts nominal
- 23 oz
- 4.5"(W) x 8.67" (L) x 1.81" (H)
- 11-27 VDC input voltage

WARRANTY

- One years on parts and labor
- Two years or three years optional extended warranty plan

ROUTER FEATURES

- "BATEMAN" (Better Approach To Mesh Adhoc Networking) Layer 3
- HWMP - Hybrid Wireless Mesh Protocol Layer2
- "TDMA-like" protocol for video 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
- Routing for RIP, BGP, OSPF, Mesh, Multi cast, and IP filtering
- DNS relay, server
- DHCP server, relay, and client
- SNMP/SSH/Telnet/Java Client
- WDS (wireless distribution service) for transparent bridging
- VPN support (SSL, 3SEC)
- MPLS/VPLS support
- SMB storage
- Comprehensive scripting
- 3G and 4G modem support
- Layer 2 management utility
- Complete network management system
- Dynamic Gateway monitoring

SUPPLIED ACCESSORIES



Ethernet Crossover Cable



90-240VAC to 18VDC PS



1GB POE Power Injector

Contact Us

Call toll-free: +1-800-541-5589

Inquiries: sales@hautespot.net

Web: www.hautespot.net