

A thick, curved graphic element consisting of a yellow outer layer and a black inner layer, arching over the text.

OpenRoute™ OnSite Wi-Fi

Wireless coverage where and when you want it



For more information, call
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With OpenRoute, you can put Wi-Fi where you need it.

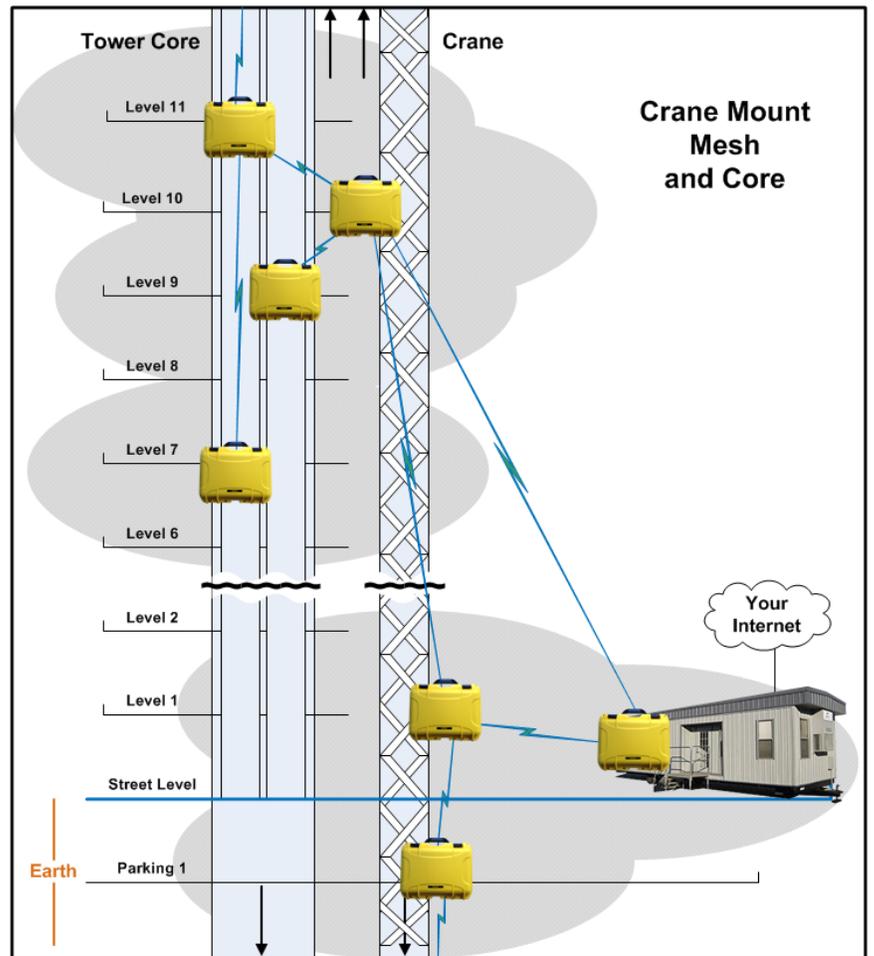
Businesses are moving to cloud-based applications because immediate communication reduces cost, eliminates rework, and increases profitability. Unfortunately, coverage isn't always reliable across your job site.

OpenRoute OnSite Wi-Fi is easy to set up—it starts with connecting a small, self-contained yellow box to your existing Internet and power sources. That's it. When you need even more coverage as the job site expands and structures are built, add another yellow box or two, or more. The yellow boxes connect wirelessly and automatically, forming their own mesh network.

To assist in deploying additional yellow boxes, we offer the free OpenRoute™ NetMeter mobile application, which quickly identifies where to place units for optimal coverage across the site. You can even pick up a yellow box and move it for the day. No professional site survey or calling the wireless carrier. No need to add expensive controllers or computer-based software programs to manage the network.



What you'd been forced to do in the office can now be done anywhere on site—with OpenRoute OnSite Wi-Fi.



OnSite Wi-Fi fits any construction site: towers, lower-level buildings, tunnels, or bare ground .

Easy to Use

The network can be deployed by your staff using the OpenRoute NetMeter application. The yellow boxes form a self-organizing network, automatically discovering and connecting to one another.

Rugged

Designed to work in variable and inclement weather conditions, the yellow boxes have no external antennas, an enclosed power source, and weatherproof connector ports.

Uses Industry Standards

OpenRoute is compatible with industry-standard protocols and is enhanced by our expertise in developing wireless networks for the United States military. OpenRoute will integrate easily with all existing corporate networks.

Scalable and Movable

You determine how much site coverage you want—add or subtract yellow boxes and the intelligent OpenRoute network adapts to your site's changing needs. When you're done with one job site, simply unplug and take the network to the next one.

Wireless Specifications

	Access Point	Backbone Network
Data	<ul style="list-style-type: none"> ▪ 802.11g/n access point, 2.4GHz ▪ 2x2 MIMO ▪ Default: HT20 20MHz channel and 800 ns Guard Interval with speeds up to 130 Mbps. ▪ Optional HT40 configurations supported with speeds up to 300 Mbps. ▪ 802.11n modulations supported: BPSK, QPSK, OFDM (16-QAM,64-QAM) 	<ul style="list-style-type: none"> ▪ 802.11a/n/s mesh point, 5.8GHz ▪ 2x2 MIMO ▪ Default: HT20 20MHz channel and 800 ns Guard Interval with speeds up to 130 Mbps. ▪ Optional HT40 configurations supported with speeds up to 300 Mbps. ▪ 802.11n modulations supported: BPSK, QPSK, OFDM (16-QAM,64-QAM)
Security	WPA2 PSK AES-CCMP with hardware encryption in access point mode.	Auth-SAE AES-CCMP with hardware encryption in mesh mode.
Antennas	2 internal MIMO antenna FCC Class A Approved ERP = 24 dBm at 2.4 GHz (HT20)	2 internal MIMO antenna FCC Class A Approved ERP = 27 dBm at 5.8GHz (HT20)

Physical Specifications

External Port	Combined Ethernet/power port Power over Ethernet Accessory Kit (PoE) available; the kit comes in an IP55 box and includes cable with a quick-release, reverse bayonet connector type that makes an IP67 connection at the PoE port on the yellow box enclosure.
Power	10-28 VDC passive power over Ethernet Typical Power consumption <ul style="list-style-type: none"> ▪ Idle: 10W ▪ Average: 15W ▪ Peak: 20W Max current draw with POE Accessory Kit = 24VDC output
Durability	ATA 300, ASTM D4169, IP67, Mil-STD-810G method 516.6, procedure IV: single unit, 26 drops from 48"
Physical Security	Anti-theft protection with optional padlock or cable lock
Operating Temperature	Continuous sheltered operation: (-50 to 111) [°] F, (-46 to 44) [°] C Cold start: -22 [°] F (-30 [°] C) Full sunlight exposure: 86 [°] F (30 [°] C)
Dimensions	L 15.8" x W 12.41" x H 6.8" (L 390 mm x W 310 mm x H 170 mm) 8 pounds (3.6 kg)
Mounting Configurations	Mounting Accessory kit available to support surface or pole mounting
Manufacturing & Warranty	Designed and manufactured in the USA Limited one year warranty

Networking and Control Specifications

Architecture	802.11s-based mesh network. Layer 2, IPV4, and IPV6 compatible.
Remote Connectivity	Secure terminal via SSH
Deployment	Download NetMeter, OpenRoute's free Android mobile app, to: <ul style="list-style-type: none"> ▪ Set your network name and create a password ▪ Place yellow boxes to adequately cover your jobsite No controller, central configuration tools, or other components needed.

NetMeter deployment and network management application



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All Rights Reserved. U.S. Patents 8,209,433; 8,458,330; other patents pending.

This product includes cryptographic software written by Eric Young, <eay@cryptsoft.com>
This product includes software written by Dan Harkins, <dharkins@lounge.org>