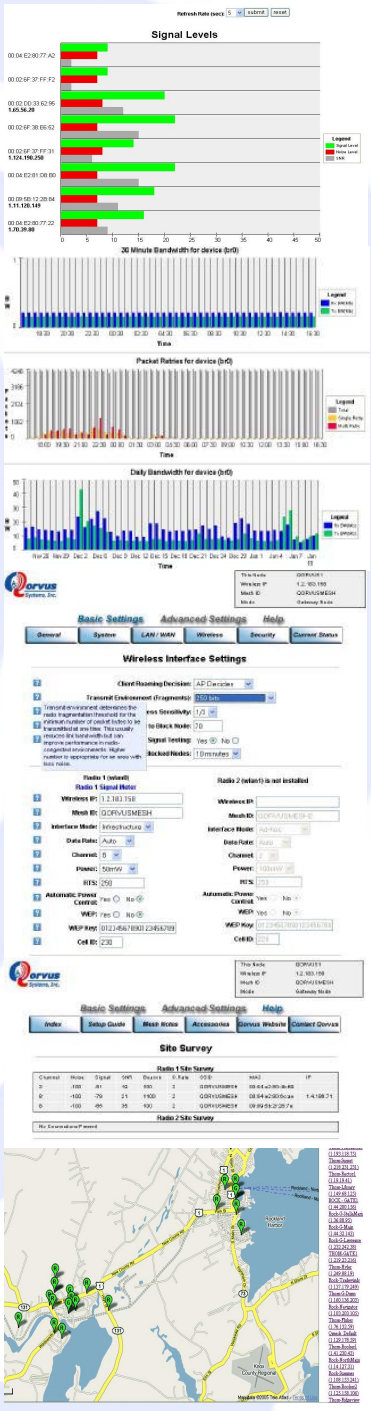
Industrial . Wireless . Mesh . Networking

Qorvus Qcode™ Wireless Mesh Software for IP CCTV and Internet Access Systems



Available installed and pre-configured for your specific application on QnodeJr, Qcell, and MeshCam products

Qorvus Qcode™ embedded wireless mesh router software allows VARs to install a self-healing wireless networking and repeater technology that allows IP data packets to hop wirelessly over 1000's of feet from one wireless node to the next, until Internet or LAN data reaches the client's NR, desktop, laptop, PDA, or VOIP phone. This distributed micro-cell approach produces consistent high signal strength, and allows a rapid and easy deployment of large numbers of low-powered low-level micro-cell wireless access points throughout an area, **without buried cable** or expensive high-tower centralized wireless distribution methods. Developed by a team of engineers with over 35 years of practical RF and embedded systems experience, Qcode includes the most-wanted features for rapid installation including **integral user-friendly SSL web-based and SSH console setup, dynamic signal-strength meters, audio and visual beacons for aiming antennas, built-in payload bandwidth testing tools, selective blocking of neighboring nodes, local captive portal with built-in graphics, central portal and server-based network management, monitoring, and provisioning, radius and Automac, extensive in-context tool-tip help and on-board setup documentation and numerous reliability enhancements** to the basic Linux source code modules, thus creating an extremely robust, reliable, and easily installed industrial-strength wireless networking solution.

Qcode wireless networking software supports the use of 900 Mhz, 2.4 Ghz or 5.8 Ghz single, dual, or three-radio wireless mesh technology and can be installed on the most popular wireless router platforms including mini-ITX, Soekris, and pc-engines wrap and alix motherboards It supports the most popular off-the-shelf OEM radio modules including the Senao 2511, the Wistron CM9, and the Ubiquity SR series.

Qcode's remarkable technology can be used to provision up to 35 mb/s net payload at the customer's computer (5 Ghz) or up to 15 mb/s (900 and 2.4 Ghz) and can be deployed with only minimal site preparation, little or no intermediate gateway and routing hardware and engineering, and no hardwired backhaul provisioning except at one or two gateways. The Qorvus Qnode™ wireless mesh access point allows for greatly reduced site and system engineering, easy scalability, and is inherently hack-resistant, hidden-node resistant, remotely manageable, and fault-tolerant.

This amazing low-cost manageable technology can also serve as a tower-mounted PtMP node, or as a local NAT and DHCP WiFi hot-spot or serving up local and internet-based content in infrastructure mode, while simultaneously backhauling data via secure IP tunneling through its mesh routing architecture. It can even backhaul VOIP SIP sessions as a client or server in mesh or PtMP star topology, while performing all of its other functions, without secondary radio hardware, software, or antennas.

Qcode is based on open-source Linux with proprietary extensions, has been in continuous development since late 2003 and is in widespread use in commercial networks throughout the US and internationally. Legitimately-obtained copies of Qcode may be freely examined and modified by the end–user in accordance with our special limited license:
https://www.qorvus.com/phpBB2/viewtopic.php?t=116

Major features of this software include:

- Serves as a stand-alone PtMP AP, Hotspot, or mesh gateway & repeater
- Extensive Prism and Atheros support for long-distance mesh, point-to-point, or point-to-multipoint links, RTS/CTS, Fragmentation, RX sensitivity, TX power, hidden SSID, master, managed, diagnostic, and ad-hoc modes
- Built-in classful bandwidth management, firewall, VPN, and Walled Garden
- Support for Radius or locally-cached AutoMac authentication
- Redirects to external server or built-in php server with location-based services and video support
- Fully encrypted client traffic using Blowfish tunnels
- End-to-end client pptp VPN support, VPN hosting built in to each node
- Multi-modal client authorization via built-in Radius, open or captive portal with custom redirects
- Public IP host-mapping to user end-points
- Layer 2 or layer 3 selective blocking of adjacent nodes
- Static DHCP assignment for external black-box devices
- AODV and WDS based mesh routing, user-selectable meshAP compatible mode
- Supports central management via VPN or NOC server
- Includes access to Qorvus **Qportal™** system with built-in node status check, GPS geo-mapping, viewing of installed IP CCTV cameras, and email alerts
- Supplied on 256 meg industrial-rated CF with easy field-programmable updates via the net
- Extensive technical support and customized OEM version available

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