



**MOTOROLA**

***Authorized Networking  
Solutions Provider***



*Wireless Networking Solutions.  
Endless Possibilities...  
Product Portfolio Overview*



With more than 75 years of knowledge and experience, the name Motorola stands for the ultimate in wireless communications expertise. Highly regarded for its outstanding warranties, support and service, Motorola offers customer peace of mind.

Motorola Wireless Networking Solutions can offer Enterprise, Education, Healthcare, Security or Wireless Internet Service Provider organizations these benefits:

#### ***COST EFFECTIVE SOLUTION***

Motorola Wireless Networking Solutions offer high-speed connectivity at a cost that is substantially less than wire lines – especially in difficult to reach areas that are cost-prohibitive to wire. Plus you can reduce monthly recurring costs and delay/disruption of installing cable or T1 lines.

#### ***SECURE TRANSMISSIONS***

Meet latest certifications for secure wireless transmissions

##### **Wireless LAN:**

- Wired Equivalent Protocol (WEP)
- IEEE 802.1x authentication compliant
- Wi-Fi Protected Access (WPA)
- Meets HIPAA requirements to protect privacy and security of patient data

##### **Wireless WAN:**

- Data Encryption Standard (DES)
- IEEE 802.3 compliant

#### **MOTOROLA WIRELESS NETWORKING SOLUTIONS INCLUDE:**

##### ***WIRELESS LAN***

**Motorola Access Points  
Network Interface Cards**

##### ***WIRELESS WAN***

**Motorola Canopy™ Wireless  
Broadband System  
Motorola Wireless Ethernet Bridges**

##### ***PERIPHERALS***

**Video Servers and Routers**

#### ***PRODUCTIVITY***

Enable your staff or students to quickly access critical information (voice, video, data), as well as perform real time transaction processing.

#### ***CUSTOMER PEACE OF MIND***

No one knows more about wireless communications than Motorola, and a successful wireless network installation requires the kind of expertise that is unique to our dealer network who have the technical "know how" to create wireless solutions customers can count on.



#### **MOTOROLA ACCESS POINTS**

Supporting IEEE 802.1x-based WLAN security standards, Motorola's Access Points are flexible, secure and reliable wireless LANs. Whether you're adding wireless mobility to extend your existing corporate network, or creating a free-standing wireless network for a small or branch office, Motorola offers an enterprise-class Access Point that's ideal for your application. With Wi-Fi Protected Access and rogue AP detection capabilities, Motorola Access Points meet the stringent security requirements of most organizations. And easy migration paths help ensure you meet the growing number of users, emerging standards and converged data/voice/video traffic of tomorrow.



# Wireless LAN

#### **NETWORK INTERFACE CARDS**

ORiNOCO Network Interface Cards (NICs) deliver the utmost in mobile convenience and performance, so that you can move easily between 802.11 networks at work, home, and in public spaces. Fully compliant with all 802.11 standards, the NICs deliver proven high performance for a broad range of applications and host computer systems. The NICs provide throughput five times higher than 802.11b which speeds network response times and supports bandwidth-intensive applications. Just plug the NIC into the Cardbus slot of your notebook computer and you have everything you need for maximum wireless productivity in an enterprise, public building or at home.

#### **AVAILABLE IN 2 VERSIONS:**

Available in 802.11 b/g and 802.11 a/b/g, the NICs provide multiple security levels with encryption up to 152-bit WEP and 802.1x authentication. Both versions are shipped hardware-ready for upgrade to Wi-Fi Protected Access (WPA) security.



# Wireless WAN

## **MOTOROLA CANOPY™ WIRELESS BROADBAND SYSTEM**

In the burgeoning but demanding broadband marketplace, the Canopy platform offers wireless technology with significant benefits that enhance the broadband experience for a wide range of organizations. The system's performance makes high-demand technologies like Voice over IP, video surveillance, broadband Internet access and more, both effective and productive.

The Canopy system uses Point-to-Point and Point-to-Multipoint networks that can span distances ranging from two to 10 miles in a multipoint configuration, to as many as 35 miles in a Point-to-Point configuration.\*

The basic building blocks of a Canopy system are:

- Access Point (AP) easily interfaces with your existing Local Area Network (LAN)
- Backhaul Unit (BH) provides Internet "feed" from a remote location
- Subscriber Module (SM), the Internet access receiver, can be installed in or on your site.

The Access Point and Subscriber Modules are compact and are designed to be mounted outdoors, so there is no need to run overhead and in-ground wire or microwave. There's no additional software for you to install, further minimizing exposure to error.

The Canopy solution also delivers outstanding performance using a modulation scheme that improves the quality of data delivery and mitigates interference from other systems. Motorola's Canopy platform offers security with over-the-air encryption that scrambles data bits and helps prevent interception so, data delivery with the Canopy solution is very reliable.

\* Canopy 5.7 GHz Backhaul with reflector kit.



## **MOTOROLA WIRELESS ETHERNET BRIDGES**

Motorola Wireless Ethernet Bridges greatly reduce the installation costs and recurring fees associated with standard T1 lines. As a leased-line replacement for a single T1, it pays for itself in about a year. Payback period can further be reduced to less than 2 months when replacing multiple leased lines. Also, Motorola Wireless Ethernet Bridges are among the easiest-to-install outdoor bridges on the market — they can be installed in a couple of hours, not days.

For connecting two buildings up to 6 miles away, the Motorola WiB-20 is a complete, weatherized IEEE 802.3 compliant wireless bridge solution that provides up to 40 times the capacity of a T1 line - and can be user-installed in minutes. This high-capacity connection enables faster network traffic to deliver new service offerings.

### **KEY FEATURES**

- WiB-20: 18 Mbps
- WiB-60: 54, 36, 18 Mbps, user selectable aggregate
- Operates in the 5.8 GHz U-NII band and ISM band
- WiB-60: up to 3 miles for highest throughput setting, up to 6 miles for lowest setting
- WiB-20: up to 6 miles



# Peripherals



## **VIDEO SERVERS AND ROUTERS**

Vanguard® RemoteVU Guardian provides the features of a video surveillance tool and the intelligence of a network access device all in one. It enables your organization to connect analog security cameras to a wireless LAN or WAN to receive and store real-time critical visual information. This wireless solution allows you to connect remote sites which were previously too expensive to network with wires or impossible to reach without running miles of cable underground. And because RemoteVU Guardian allows security professionals to monitor from a central location, they can cover more locations without increasing patrols, coverage hours or the budget required for both. Critical remote sites, such as parking lots and off-campus locations which have previously been impossible to secure without a physical presence are now instantly connected.

Utilizing the Vanguard® 340 series or Vanguard® 6400 series of routers along with RemoteVU Guardian, you can integrate and manage multiple surveillance technologies including video, voice, and data applications. If your organization is looking for a video solution and also wants to converge voice, data or both on the same network then this wireless solution can save your business thousand of dollars.

The Vanguard 6400 series router is ideal for medium-size enterprise branch offices. With its ability to support multi-service access, flexible LAN and WAN connectivity, a variety of security options and high performance processors, the Vanguard 6400 series offers enterprise customers a complete networking solution while allowing for future growth of their network without any large investments or major upgrades. Plus, the Vanguard 6400 Series is the best value in the industry to reduce branch networking costs for: integrated packet Voice over IP, Voice over Frame Relay, Fax, Digital Video, LAN routing, and legacy data support.

The Vanguard 340 series router is a next generation IP/VPN platform targeted at small/medium enterprise customers. With its modular and flexible architecture, the Vanguard 340 series router provides a cost-effective ebusiness platform for enterprise customers to integrate data/voice/video/fax traffic over one network, thus reducing their overall Wide Area Networking (WAN) costs.





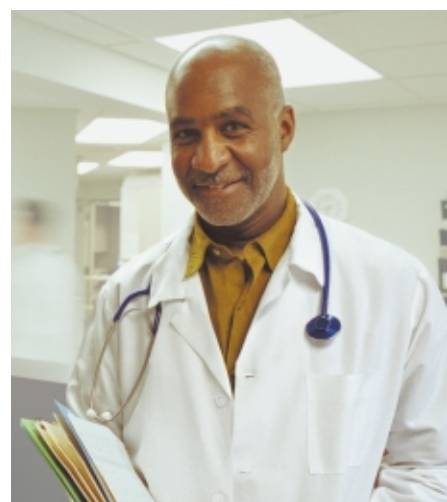
In today's fast-paced world, mobile professionals' expectations are growing. They require instant and transparent access to information, wherever they are. And they expect to continue working, uninterrupted, as they move from place to place.

Motorola Wireless Networking Solutions can aid your company or organization in a variety of ways, depending on your particular needs.

#### ***FLEXIBLE AND SECURE ACCESS SERVICES FOR CAMPUS ENVIRONMENTS***

The Campus Access Solution provides immediate, wireless data connectivity for students, faculty, administrators, visitors, and other university-related personnel throughout the campus environment. Its multi-standard wireless architecture allows easy migration of new wireless standards, deployed and managed as a single network. Other benefits include:

- Customizable access point group management and configuration
- Centralized management for multiple public access sites
- Low cost deployment and reduce recurring leased line costs
- High-speed storage area networks (SANs)
- Support for advanced security, such as video surveillance of walkways for student protection, hall monitoring, and overall student protection on university campuses and in K-12 learning environments.



#### ***BRINGING TOGETHER EVERY FACET OF HEALTHCARE IN ONE WIRELESS NETWORK***

The Healthcare Wireless Networking Solution connects patients, doctors, hospital staff, and medical facilities into one cohesive system while avoiding the high cost of a wired backbone installation. It can also provide revenue generating broadband access for patients and visitors. With no ongoing monthly charges, and almost instantaneous installations, Motorola's new wireless products offer cost-effective solutions for virtually any size healthcare organization. Other benefits include:

- Hospital-wide transmission of bandwidth-intensive medical data and image files
- Sharing of data and graphics across all hospital locations
- Option of running Voice over IP to further reduce operating expenses
- Wireless video consulting to reduce travel and diagnostic times
- Video surveillance for added security
- Meets HIPAA requirements to protect privacy and security of patient data.

# *Applications*



### COMPLETE SOLUTIONS FOR ENTERPRISES

The Enterprise Solutions provide instant and transparent access to information wherever demanding executives need it so they can continue working without disruption. These solutions also easily enable corporate visitor access and instant creation of hot spots in small, medium and large venues, such as airports, coffee houses, and restaurants. Other benefits include:

- Improved productivity with mobile network, Internet, and email inside buildings or around campus
- Quick network build-out for new employees
- Simple set-up and ease of maintenance
- Low-cost deployment
- Internet access for employees and visitors without sacrificing corporate network integrity.

## Campus Environment (multiple buildings):

- SCHOOLS
- MEDICAL CENTER WITH MULTIPLE DOCTOR OFFICES
- CORPORATE HEADQUARTERS
- OFFICE PARK

