



Features

- High packet and data performance - up to 200000 packets per second and up to 3 Gigabit per second data rate
- Full featured Layer 2 Gigabit Switch and Layer 3 Gigabit router. High Speed IP traffic is scalable up to Gbps with low latency.
- Seven Gigabit Ethernet ports
 - 3x10/100/1000 Routed ports
 - 4x10/100/1000 Switched ports
- TCP/IP
- Implements standard communication protocols
- Compatible with third party telecom equipment
- Easily integrated into existing networks
- Extensive configuration flexibility, providing a wide range of satellite and terrestrial network solutions
- Broad set of services, including DHCP client and server, DNS client, NTP client, FTP/TFTP client, NAT, CDP, AAA and more
- Solid state design provides high reliability
- Extensive control, monitoring and statistics via M&C Ethernet Port

Overview

Advantech Wireless' High Performance R800 router is a Layer 2 10/100/1000BaseT Ethernet switch and full featured Layer 3 10/100/1000BaseT Ethernet router. It's a solid state, embedded, efficient and reliable solution for IP networking. It implements a variety of standard communication protocols, which are compatible with third-party telecommunication equipment and can be easily integrated into existing networks. **Advantech Wireless' R800** provides cost effective networking solutions for wide range of applications including satellite networks, terrestrial networks and last mile applications.

Applications

The **R800** is designed to provide best in class performance for critical applications:

- VSAT Networks including DVB-RCS
- Government networks
- Satellite, Cable or Terrestrial Networks
- Access points to public network, last mile solutions

High Performance Router R800



Performance Specifications	
<p>Interfaces: <u>Input/Output Interfaces:</u> 3x 10/100/1000 Base-T Ethernet Routed ports 4x 10/100/1000 Base-T Ethernet Switched ports</p>	<p>Services:</p> <ul style="list-style-type: none"> • DHCP client, server • DNS client • NTP client • FTP/TFTP client • CDP • NAT (dynamic, static) • AAA (Authentication, authorization and accounting) • Local AAA (Access rights table) • RADIUS, TACACS+ (Client, Remote server authentication)
<p>Performance: <u>Data Throughput</u> Up to 3 Gbps <u>IP Packet Throughput</u> 200,000 PPS</p>	
<p>Data Link Protocols:</p> <ul style="list-style-type: none"> • IEEE802.3 10Base-T, IEEE802.3u 100Base-Tx, 1000 Mbps - Gigabit Ethernet (IEEE 802.3z) • Bridging • Rapid Spanning Tree Protocol, IEEE 802.1w; • MAC level Access Lists • Static ARP • VLAN, IEEE 802.1Q; 	<p>Management:</p> <ul style="list-style-type: none"> • Terminal configuration ports: RS-232 console and telnet • Command line interface (CLI) • Cisco like command interpreter • Script support • Running and startup configurations saving and recovery • System log, local and remote storage support • SNMP agent v.1, v.2, v.3, MIB II • Built-in diagnostic: Ping, traceroute • Local statistics (interfaces, IP, TCP, UDP, ICMP and more) • Debugging functions
<p>Stacks: <u>TCP/IP</u></p> <ul style="list-style-type: none"> • Routing: static, dynamic (RIP v.1, v.2, OSPF v.2); • Packets filtering (firewall) , access lists up to network layer 4; • Policy Based Routing • Static multicast forwarding; • IP aliases support • UDP broadcasts forwarding (DHCP, DNS, BOOTP, etc.) • IPSEC • NAT, PAT • IP tunnels: GRE, IP/IP • Load balancing • QoS Layer 3 : <ul style="list-style-type: none"> - FIFO queue (FIFOQ) - Priority queuing (PRIQ) - Class based queuing (CBQ) - Waited Fair Queue (WFQ) • Configurable IP policy: ICMP, routing, switching, TCP, UDP 	<p><u>Dimensions</u> 1RU standalone chassis, 19W X 12.5D X 1.75H inches (48W X 31.8D X 4.4H cms)</p> <p><u>Weight:</u> 8.8lbs / 4kgs</p> <p><u>Power:</u> <100Watts</p> <p><u>Operating temp:</u> 0°C to 50°C (32°F to 122°F)</p> <p><u>Storage temp:</u> -25°C to 85°C (-13°F to 185°F)</p> <p><u>Relative humidity:</u> Operating: Up to 90% non-condensing Non-Operating: Up to 95% non-condensing</p>

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