

For Ethernet/DSL/Cable Services

The Q2300 router makes low-cost broadband services practical for business. Until now, business-class routers have been expensive and overly complex to set up and use, while consumer-level DSL and cable-modem routers have lacked business-quality monitoring, control, and security capabilities. The Q2300 router changes all this by combining the features of an IP router, QoS appliance, IPSec VPN appliance, firewall, and Ethernet switch into one easy-to-use network access device.

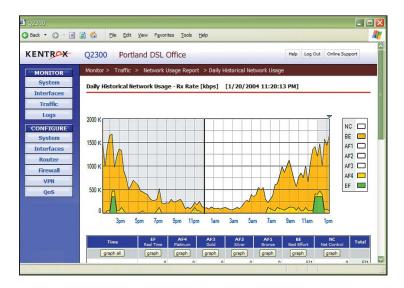


Figure 1: Graphical reports show network statistics and trends at a glance.

Quality of Service support for VoIP and other critical applications—right out of the box

Mission-critical applications and delay-sensitive traffic, such as VoIP and video, can degrade significantly when competing with bursty web traffic for WAN bandwidth. The Q2300 is pre-configured to provide priority queuing and traffic shaping to ensure high-priority traffic takes precedence over less critical applications. Traffic can be classified with user-created policies, making it easy to prioritize traffic to meet your needs.



Business-class network access Easy-to-use graphical interface Best-in-class QoS reports

- High-performance IP Router Virtual Private Networking (VPN) Network Address Translation (NAT) Intuitive CLI for scripting VLAN support for 8 LAN subnets Static, RIP, and OSPF support Ethernet WAN, PPPoE capable
- QoS Appliance
 Traffic reports and graphs
 Auto DiffServ/ToS priority queuing
 Class-based weighted fair queuing
 User-configurable QoS policies
 Prioritization of VoIP and video traffic
- VPN Appliance
 100 IPSec tunnels
 Encryption (DES, 3DES, AES)
 Hardware acceleration for DES/3DES
 Windows XP IPsec client support
- Stateful Packet Inspection Firewall
 Packet filtering (access control lists)
 Intrusion Detection System (IDS)
 Denial of Service (DoS) protection
 Application Layer Gateways (ALG)
- Ethernet/DSL/Cable Services
 Bandwidth monitoring and control
 Alarms and diagnostics
- Managed Ethernet Switch Four 10/100 Ethernet LAN ports Auto-sensing, auto-polarity



Figure 2: Up to 100 IPSec VPN tunnels mean flexibility and cost savings.

Simple, low-cost installation

Traditional routers, security devices, and network access equipment can be difficult to set up, and often require special training. That can be problematic for many businesses that are trying to reduce support costs or do not have on-site expertise.

The Kentrox Q2300 router is designed to simplify installation with its intuitive GUI, making it faster and easier for both network administrators and less experienced installers. Advanced feature configurations, such as VPN tunnels, firewall, and QoS policies, are also made simpler by the router's GUI.

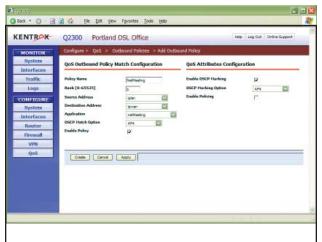


Figure 3: The graphical interface presents configuration options for simpler setup.

Embedded, Web-style GUI simplifies management

The Graphical User Interface contains powerful tools to troubleshoot problems, run QoS reports, make configuration changes and reload configurations, set up trafficshaping policies, or just check the health of the network.

Accomplishing these tasks with command line-driven products can be difficult and time-consuming. Arranged logically and intuitively by function, the router's GUI is point-and-click easy.

Protect internal systems from intrusion

To protect internal networks from outside intrusion, the router conceals LAN IP addresses using Network Address Translation (NAT). It also has an integrated Stateful Packet Inspection (SPI) firewall. The router firewall includes Intrusion Detection System (IDS) capability, which identifies and blocks common attacks. Application Layer Gateways (ALG) pass common traffic types while preventing unwanted traffic from entering the LAN.

VPN support

With Virtual Private Networks (VPNs), you can take advantage of the cost savings associated with transmitting communications over IP services. The Q2300 secures up to 100 VPN tunnels with standards-based IPSec encryption (DES/3DES/AES) and authentication. The router supports direct VPN connections with computers running Windows XP Service Pack II IPsec clients.

Its VPN support is designed for Virtual Private Networks Consortium interoperability and conformance. Dedicated hardware accelerates DES/3DES encryption for optimal performance.

Fine-tune network performance with QoS monitoring and reports

The Q2300's graphical reports let you monitor traffic performance at each established QoS priority level to see whether the critical traffic flows are getting the bandwidth they need. The report data helps you identify performance problems and modify your QoS policies appropriately. To reduce bandwidth pinches, for example, you would simply view the current and historical performance reports, and adjust QoS policies as necessary to provide the appropriate amount of bandwidth for high-priority applications.

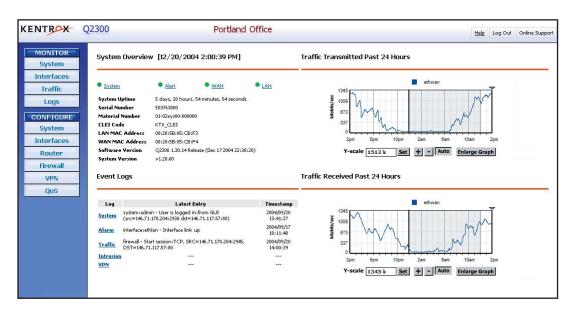


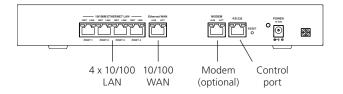
Figure 4: The Kentrox Q2300 router offers an intuitive, Web-style GUI to simplify setup and management.

Protect your network investment with support plans and technical training

To keep your network healthy and productive, Kentrox offers Kentrox Care Support Plans for our Q-Series[™] access routers. Kentrox technical training courses are also available on site or at the Kentrox campus to help you get the most out of your Q-Series routers. For details, visit our website at www.kentrox.com/services.

ORDERING INFORMATION

DESCRIPTION	CATALOG #
Q2300 Ethernet QoS Access Router	2300
Q2301 Ethernet QoS Access Router with Modem Items included with the Q2300 and Q2301:	2301
 Documentation CD (includes Adobe® Acrobat® PDF ver the Setup Guide, the User's Guide and the CLI Reference AC-DC power adapter and cable for use in North America One 6' Ethernet LAN cable, Cat 5E, UTP 568B One CLI serial to PC adapter, RJ45 female to DE9 female (for use with external Ethernet cable) Two #8 wood screws and anchors for wall-mounting 	e Guide) ca
Ethernet Cable, Cat 5E, 6'	93006212
Q2300 19" Rack Mounting Kit	77912
Q2300 CLI Serial to PC Adapter, RJ45 Female to DE9 Female (for use with external Ethernet cable)	77910



KENTROX CARE SERVICE AND SUPPORT	PART #
Onsite 7x24x4	13803
Onsite 5x8x4	13813
Onsite 7x24xNBD	13802
Onsite 5x8xNBD	13812
Basic 7x24xNBD	13804
Exchange NBD	13809
Onsite Installation	13820
Phone Installation	13830
Phone Installation	13830
Phone Installation KENTROX TECHNICAL TRAINING	13830 PART #
KENTROX TECHNICAL TRAINING	
KENTROX TECHNICAL TRAINING Customer Site	PART #
KENTROX TECHNICAL TRAINING Customer Site Basic Config & Maintenance Lecture, 1 day	PART #
KENTROX TECHNICAL TRAINING Customer Site Basic Config & Maintenance Lecture, 1 day Advanced Config & Maintenance Lecture, 1 day	PART #
KENTROX TECHNICAL TRAINING Customer Site Basic Config & Maintenance Lecture, 1 day Advanced Config & Maintenance Lecture, 1 day Per student charge for lecture in excess of	PART #
Customer Site Basic Config & Maintenance Lecture, 1 day Advanced Config & Maintenance Lecture, 1 day Per student charge for lecture in excess of 8 students, per day	PART #

SPECIFICATIONS

INTERFACES

WAN: One 10/100Base-Tx (RJ45)

Four-port, 10/100 Ethernet switch (RJ45) I AN:

auto-sensing, auto-polarity

Control port (CLI): One RS-232 (RJ45)

Modem (optional): One V.92 modem (RJ11C) for dial-in management

MANAGEMENT/ADMINISTRATION

Intuitive Web-style GUI (accessible from WAN

or LAN)

Access Management: Three levels—admin, configure, view; up to 10 users with passwords

Alarm, System, Intrusion, Traffic, VPN Logs:

Syslog support

SNIMP: Traps, MIB II, I/F MIBs

Software updates via FTP or GUI Updates:

Intuitive command line interface (CLI) accessible CLI: via control port, Telnet, SSH, or modem SNTP support and 8-hour power failure backup

Real-time Clock:

FIREWALL

Protection Methods: Stateful Packet Inspection designed for ICSA

compliance Denial of Service (DoS)

Intrusion Detection System (IDS)

TCP and UDP packet filtering

Application Layer Gateways (ALG) Policies: 50 user-configurable policies

Mapped IP: 16 mapped IP (virtual DMZ/port forwarding)

Zones: Trusted, Untrusted, DMZ

VIRTUAL PRIVATE NETWORK (VPN)

IPSec: 100 IPSec VPN tunnels

> Internet Key Exchange (IKE) Main and aggressive modes

Diffie-Hellman MODP groups 1, 2, and 5

Perfect Forward Secrecy (PFS)

IPSec NAT traversal

Authentication: Pre-shared key

X.509 certificates

DES, 3DES, AES (128 bit), hardware acceleration Encryption:

for DES/3DES

Hash algorithms: MD5 and SHA-1

WAN PROTOCOLS

Protocols: IP or PPPoE ROUTER

Static, RIP v1/v2, and OSPF Routing:

DHCP server, client, relay DNS client, DNS relay

VLAN support for 8 LAN subnets Load balanced on 4 equal cost routes

QUALITY OF SERVICE

Bandwidth Class-based Weighted Fair Queuing

Management: Auto DiffServ/ToS-based priority queuing

VoIP and video prioritization All DiffServ classes supported Configurable queue weighting

Marking: Configurable QoS marking

32 user-configurable QoS policies for prioritization Policies:

by source and destination addresses, port,

protocol, DiffServ Code Point (DSCP)

Monitoring: QoS traffic reports and graphs

Configurable WAN Latency report

Standards: Supports 802.1P user priority and

VLAN 802.1Q tags

DIAGNOSTIC LEDS (FRONT PANEL)

System: System status, security alert, modem status

WAN. Port status, Tx status, Rx status I AN Port status, Tx status, Rx status

PHYSICAL

1.6" H x 11.8" W x 8.6" D Dimensions:

(44mm H x 300mm W x 219mm D)

Weight: 3.8 lbs. (1.72 kg)

Power: Universal AC adapter, 100-240 VAC input,

50-60 Hz; power consumption: ≤ 20W

Mounting Options: Table-top, wall-mount or optional

19" rack-mount (1RU)

ENVIRONMENT

0° to 50°C (32° to 122°F) Operating:

5% to 95% RH (non-condensing)

-20° to 66°C (-4° to 150°F) Storage:

5% to 95% RH (non-condensing)

REGULATORY

Emissions: FCC 47 CFR 15 Class A Safety:

ANSI/UL 60950-1-2002

CAN/CSA-C22.2 No 60950-1-03 Terminal:

FCC 47 CFR 68 IC CS-03

05-15-002-3 3/06 Copyright @ 2006 by Kentrox, LLC. All Rights Reserved. Kentrox is a registered trademark and Q-Series is a trademark of Kentrox, LLC. Information published here is current as of this document's date of publication, but is subject to change without notice. You may verify product information by contacting our headquarters in Hillsboro. Kentrox is an Equal Employment Opportunity/Affirmative Action employer.

Kentrox, LLC 20010 NW Tanasbourne Dr. Hillsboro, OR 97124 Phone 503-643-1681 Service and Support 800-733-5511 www.kentrox.com



Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com