Data Center & Cloud Computing

DATASHEET

Advanced 5-Port Gigabit VPN Network Router

Model: ER-5

Sophisticated Routing Features

Advanced Security, Monitoring, and Management

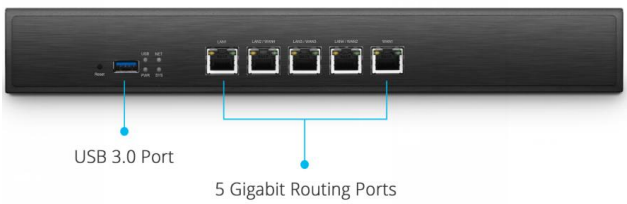
High-Performance Gigabit Ports

Overview

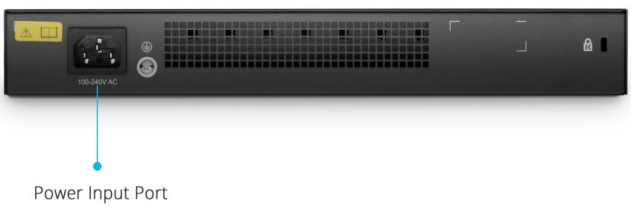
The ER-5 multi-core exit gateway is a new generation of high-performance Internet exit gateways using the high-performance MIPS multi-core processors for the business requirements of various users and services as well as the heavy traffic.

It has excellent performance and powerful data processing capabilities. Compared with traditional firewalls and broadband routers, the ER-5 boasts ultra-high wire-speed throughput and industry-leading new connection capabilities. It is especially suitable for complex network applications such as small and medium-sized Internet cafes, small and medium-sized enterprises and governments.

Front Panel



Back Panel



Model Comparison Chart

	ER-5
Application Scenario	Over 120 Terminals
Gigabit RJ45 Ports	5
USB 3.0 Ports	1
Memory	4 GB
Flash	2 GB
Max. Power Consumption	30 W

Product Specifications

Table 1- Hardware Specifications

Model: ER-5	
Dimensions	330 x 230 x 44 mm (12.99 x 9.06 x 1.73 in)
Weight	1570 g (55.4 oz)
Max. Power Consumption	30 W
Power Input	100-240VAC
RAM	4Gbit DDR3
Flash	2Gbit NAND Flash
Network Interface	5x RJ45 WAN/LAN changeable（10/100/1000）ports fully-shielded
USB	One Standard USB 3.0
Reset	One software reset button tact switch
LED	1 for Power/1 for system/1 for usb/1 for net
Number of reference concurrent machine	120
Maximum concurrent connections	5,000,0
AP management quantity	Without limitation
Chassis type	Metal shell
Operating Temperature	0℃-40℃ (32 to 104° F)
Operating Humidity	10 - 90% Noncondensing
Storage Temperature	-20℃-65℃ (4° F to 149° F), 5%-95% Noncondensing

Table 2- Software Specifications

Description	Specification
Internet Settings	➢ ADSL/PPPoE Dialing ➢ DHCP/Dynamic IP ➢ Static IP address
DHCP Settings	➢ Support LAN port and VLAN port to start the DHCP server ➢ Support viewing the allocation information of DHCP
Shunt Settings	➢ Multi-line scenario supports the access of the intranet-designated IP to specified external network lines and ports ➢ Multi-line scenario supports intranet's access to certain protocols ➢ Support a domain name to go to a specified external network line
Authentication Settings	➢ PPPoE server, PPTP server, L2TP server, OpenVPN server ➢ Add account passwords for different servers ➢ Check online users on different servers
Flow Control Settings	➢ One-click activation, intelligent flow control ➢ Manually add different protocols and different priority limits ➢ Independent speed limit for IP
URL Control	➢ Support jumping to a specific page ➢ Support keyword substitution for specified site search ➢ Support parameter substitution for specified site search
VPN Services	➢ PPTP VPN client settings ➢ L2TP VPN client settings ➢ IPsec VPN settings ➢ Open VPN client settings

Table 3- Product Features

Primary Features and Benefits

Feature	Benefit
Powerful performance under advanced hardware architecture	➢ The ER-5 multi-core exit gateway is built using multi-core processors, allowing the entire hardware platform to operate on a high-speed Ethernet architecture. This high-performance design makes the whole machine inherently superior in processing performance, and provides a guarantee for the stable operation of rich upper-layer software functions such as the deep inspection of data traffic, shaping and security defense, and firewall/VPN, etc.
Flexible interface types and functions	➢ The ER-5 multi-core exit gateway provides a variety of interface types. The entire machine contains five Gigabit Ethernet electrical ports. Any WAN and LAN interfaces can be configured to form the network based on the actual environment. The device supports Ethernet, ADSL, Cable and other methods of access. It also supports the overlapping of bandwidths from different operators, as well as a rich line strategy, can cover most of the needs.
Detailed and precise flow control and behavior management	➢ The ER-5 gateway provides a flexible and precise flow control strategy. It can perform bandwidth management based on many methods, such as the applications, IP, users, and the protocols, and sets the maximum, minimum, and guaranteed bandwidth for uplink and downlink. Besides, it can identify more than 5000 network protocols and perform bandwidth guarantee and limitations upon specific protocols. The corresponding strategy database will be updated regularly with the changes of application protocols, and users can easily upgrade online.

Feature	Benefit
Network Security	➢ Support dynamic or static binding by users' definition, such as IP, MAC, VLAN, PORT, etc. ➢ Support TACACS+, IEEE 802.1x, SNMP v3, HTTPS and SSH, ensures all users are authorized before being granted access to the network ➢ Support port isolation, to prevent communication between two neighbor network equipment within the same broadcast domain, for reducing network risk ➢ Support storm control, to prevent traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port ➢ Threat Defense features including Port Security, Dynamic ARP Inspection, and IP Source Guard ➢ Access Control Lists (ACLs) restrict access to sensitive network resources by denying packets based on source and destination MAC addresses, IP addresses, and TCP/UDP ports ➢ Apply security communication technology design, the HD surveillance video has traffic priority ➢ Adapt to harsh outdoor environments, 5KV ethernet ports surge protection, 6KV power ports surge protection, overcurrent fusing protection
Efficient and friendly management and maintenance	➢ The gateway supports various monitoring methods such as performance monitoring, fault alarms, viruses, and attack alarms, etc. It also provides statistical information including the bandwidth, application statistics, and the ranking based on users, applications, and other methods, which facilitates the network maintenance.
Leading Low Carbon Energy Concept	➢ The gateway adopts a new generation of hardware chips. While ensuring a strong processing capability, it fully considers the green energy consumption. The low-power devices cooperate with a fanless and silent cooling design, which makes the overall power consumption less than 15W. This enables users to further reduce maintenance costs when using the equipment for a long period of time, in accordance with the concept of low carbon and energy conservation advocated by the country.

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