

## R-400SERIES

### Ethernet Corporate use Routers



#### Router- QoS- VPN

#### TCP/IP protocol suite:

- **Firewall and NAT** - stateful packet filtering; Peer-to-Peer protocol filtering; source and destination NAT; classification by source MAC, IP addresses (networks or a list of networks) and address types, port range, IP protocols, protocol options (ICMP type, TCP flags and MSS), interfaces, internal packet and connection marks, ToS (DSCP) byte, content, matching sequence/frequency, packet size, time and more...
- **Routing** - Static routing; Equal cost multi-path routing; Policy based routing (classification done in firewall); RIP v1 / v2, OSPF v2, BGP v4
- **Data Rate Management** - Hierarchical HTB QoS system with bursts; per IP / protocol / subnet / port / firewall mark; PCQ, RED, SFQ, FIFO queue; CIR, MIR, contention ratios, dynamic client rate equalizing (PCQ), bursts, Peer-to-Peer protocol limitation
- **HotSpot** - HotSpot Gateway with RADIUS authentication and
  - accounting; true Plug-and-Play access for network users; data rate limitation; differentiated firewall; traffic quota; real-time status information; walled-garden; customized HTML login pages; iPass support; SSL secure authentication; advertisement support
- **Point-to-Point tunneling protocols** - PPTP, PPPoE and L2TP Access Concentrators and clients; PAP, CHAP, MSCHAPv1 and MSCHAPv2 authentication protocols; RADIUS authentication and accounting; MPPE encryption; compression for PPPoE; data rate limitation; differentiated firewall; PPPoE dial on demand
- **Simple tunnels** - IPIP tunnels, EoIP (Ethernet over IP)
- **IPsec** - IP security AH and ESP protocols; MODP Diffie-Hellman groups 1,2,5; MD5 and SHA1 hashing algorithms; DES, 3DES, AES-128, AES-192, AES-256 encryption algorithms; Perfect Forwarding Secrecy (PFS) MODP groups 1,2,5
- **Proxy** - FTP and HTTP caching proxy server; HTTPS proxy; transparent DNS and HTTP proxying; SOCKS protocol support; DNS static entries; support for caching on a separate drive; access control lists; caching lists; parent proxy support
- **DHCP** - DHCP server per interface; DHCP relay; DHCP client; multiple DHCP networks; static and dynamic DHCP leases; RADIUS support

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- **VRRP** - VRRP protocol for high availability
- **UPnP** - Universal Plug-and-Play support
- **NTP** - Network Time Protocol server and client; synchronization with GPS system
- **Monitoring/Accounting** - IP traffic accounting, firewall actions logging, statistics graphs accessible via HTTP
- **SNMP** - read-only access
- **M3P** - MikroTik Packet Packer Protocol for Wireless links and Ethernet
- **MNDP** - MikroTik Neighbor Discovery Protocol; also supports Cisco Discovery Protocol (CDP)
- **Tools** - ping; traceroute; bandwidth test; ping flood; telnet; SSH; packet sniffer; Dynamic DNS update tool

### Layer 2 connectivity

- **Bridge** - spanning tree protocol; multiple bridge interfaces; bridge firewalling, MAC NATting
- **VLAN** - IEEE802.1q Virtual LAN support on Ethernet and wireless links; multiple VLANs; VLAN bridging
- **Synchronous** - V.35, V.24, E1/T1, X.21, DS3 (T3) media types; sync-PPP, Cisco HDLC, Frame Relay line protocols; ANSI-617d (ANDI or annex D) and Q933a (CCITT or annex A) Frame Relay LMI types
- **Asynchronous** - serial PPP dial-in / dial-out; PAP, CHAP, MSCHAPv1 and MSCHAPv2 authentication protocols; RADIUS authentication and accounting; onboard serial ports; modem pool with up to 128 ports; dial on demand
- **ISDN** - ISDN dial-in / dial-out; PAP, CHAP, MSCHAPv1 and MSCHAPv2 authentication protocols; RADIUS authentication and accounting; 128K bundle support; Cisco HDLC, x75i, x75ui, x75bui line protocols; dial on demand
- **SDSL** - Single-line DSL support; line termination and network termination modes

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## R- 400 Series Specifications

### Hardware Features

	450	433	433AH
<b>CPU</b>	300 Mhz	300 Mhz	700 Mhz
<b>Memory</b>	32MRAM	64 MRAM	128 MRAM
<b>Throughput</b>	20 Mbps		
<b>Ethernet ports</b>	5 IDT 10/100 Mbit/s Fast Ethernet port supporting Auto-MDI/X	3 IDT 10/100 Mbit/s Fast Ethernet port supporting Auto-MDI/X	
<b>Serial ports</b>	One DB9 RS232C asynchronous serial port		
<b>LEDs</b>	Power, 1 user LED		
<b>Watchdog</b>	IDT internal SoC hardware watchdog timer		
<b>Power options</b>	IEEE802.3af Power over Ethernet: 12V or 24V DC Power jack/header 6..22V	IEEE802.3af Power over Ethernet: 48V DC Power jack/header 6..22V DC	
<b>Dimensions</b>	14.0 cm x 14.0 cm (5.51 in x 5.51 in); 15 cm* 10 cm (5.7 in* 4 in)		
<b>Temperature</b>	Operational: -30 °C to +70 °C (-4 °F to 158 °F)		
<b>Humidity</b>	Operacional: 70% relative humidity (non-condensing)		

Certification FCC

Warranty 1 year depot

**More Information:** [info@wicorp.net](mailto:info@wicorp.net)

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