



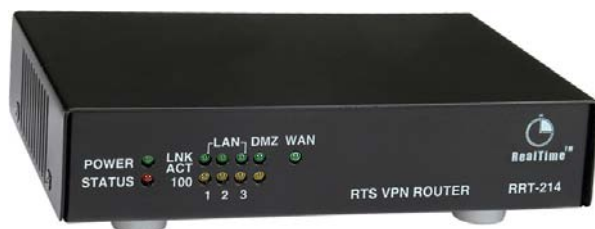
VPN Broadband Router - 10 Tunnels; RRT-214

Overview

With the growth of Internet activities, malicious attacks are happening, hackers are trying to intrude your network, accessing precious resource, and threatening enterprise network security. RealTime Systems is now offering users a cost effective, state-of-the-art solution RealTime **RRT-214**, a hardware-based, highly integrated VPN solution combining high-speed, industry-leading routing technology with a comprehensive suite of advanced, client-to-VPN gateway, LAN-to-LAN VPN solutions. With built-in connection wizard (DHCP fixed IP, PPPoE, PPTP, L2TP, SingTel RAS, Telstra Big Pond) and VPN support (IPSec standards, including IKE and certificates), RealTime **RRT-214** is able to meet various connection types, and most demanding security environment. RealTime VPN router integrates user access control, policy based plus SPI firewall protection, which can offer high efficiency and extensive protection for your network.

RRT-214 comprises a 3-port auto-sensing, auto-MDI/MDI-X 10/100 Mbps switch, a standard 10/100 Base-TX switch and a standard 10/100 Base-T WAN port.

Utilizing 56-bit DES and 168-bit 3DES encryption, header authentication, and Internet Key Exchange (IKE) access control, the **RRT-214** full IPSec VPN (virtual Private Network) capability provides complete data security and privacy for access and exchange of most sensitivity data.



Key Features

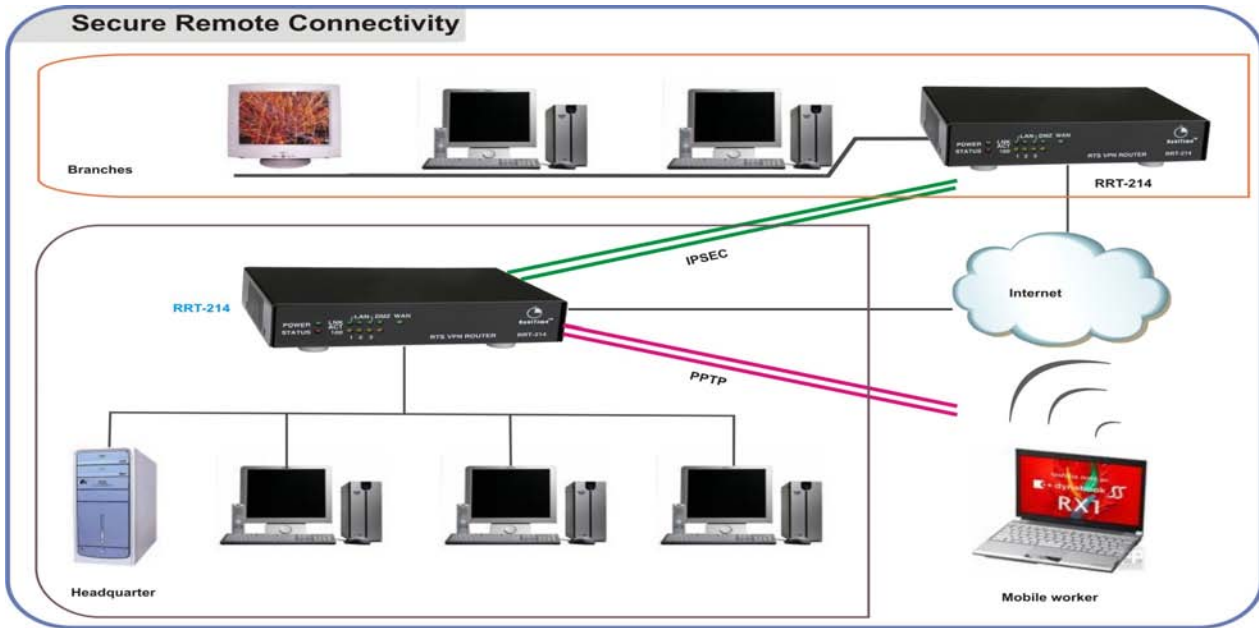
- **Firewall/ Security Features:**
 - 1) Built in NAT firewall, Policy Based Packet Filter & Attack Alert (Email) log
 - 2) State full Packet Inspection firewall.
 - 3) URL filter & Group-based/Scheduled Access Control
 - 4) Predefined/User-defined service database
- **VPN Features:**
 - 1) Site-to-site/Client-to-VPN gateway connection capability
 - 2) IKE Keying Methods: Auto (Pre-shared Key), Manual Keying
 - 3) Authentication: MD5/ SHA-1 & Encryption: DES/ 3DES/ AES
 - 4) Adjustable IKE SA Life time & manually enable/disable VPN tunnel.
- **Advance Internet Functions:**
 - 1) **Internet Communication Applications:** **RRT-214** supports for Internet communication applications, such as interactive Games, Telephony, and Conferencing applications, which are often difficult to use when behind a Firewall.
 - 2) **Special Internet Applications:** Applications, which use non-standard connections or port numbers, are normally blocked by the Firewall. The ability to define and allow such applications is provided, to enable such applications to be used normally.
 - 3) **Virtual Servers:** This feature allows Internet users to access Internet servers on your LAN. The required setup is quick and easy.
 - 4) **DMZ. Support:** **RRT-214** can translate public IP addresses to private IP address to allow unrestricted 2-way communication with Servers or individual users on the Internet. This provides the most flexibility to run programs, which are incompatible with Firewalls.
 - 5) **URL Filter:** Keyword based URL Filter to block accesses to undesirable Web sites by LAN users.
- **LAN Features:**
 - 1) With 3 Auto-negotiation, Auto MDI/MDI-X Ethernet ports. **RRT-214** eliminates most cabling inconvenience. One (the WAN port, 10/100 Base TX) is connected to your DSL or Cable modem. The other 3 (LAN port) are used to connect to local LAN.
 - 2) **DHCP Server Support:** Dynamic Host Configuration Protocol provides a dynamic IP address to PCs and other devices upon request. **RRT-214** can act as a DHCP Server for devices on your local LAN and WLAN.
 - 3) **PC database:** All LAN users can be added manually or discovered automatically by RealTime's **RRT-214** VPN router, through this built-in user database, administrators are able to have a centralized networking management.
- **Configuration & Management:**
 - 1) **Easy Setup:** Built-in configuration wizard helps users to complete network installation in a very short time via standard Internet browsers. (MS Internet Explorer, Netscape Communicator).
 - 2) **Remote Management:** **RRT-214** can be managed from any PC on LAN or via Internet anywhere around the world.



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- 3) **UPnP Support:** UPnP (Universal Plug and Play) allows automatic discovery and configuration of the **RRT-214**. UPnP is by supported by Windows ME, XP, or later.

Application





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Specifications

Model	RRT-214
Protocols & Standards	<p>IEEE 802.3 (Ethernet) ; IEEE 802.3u(Fast Ethernet) RFC 768 UDP; RFC 783 TFTP; RFC 791 IP; RFC 792 ICMP; RFC 793 TCP; RFC 826 ARP; RFC 1034, 1035 DNS; RFC 2136 DDNS; RFC 1058 RIP; RFC 1631 NAT; RFC 2068 HTTP; RFC 2131 DHCP; RFC 2411 IPSec; RFC 1829 The ESP DES-CBC Transform; RFC 1827 IP Encapsulating Security Payload (ESP); RFC 1828 IP Authentication using Keyed MD5); RFC 1826 IP Authentication Header; RFC 1825 Security Architecture for the Internet Protocol; RFC 2104 HMAC: Keyed-Hashing for Message Authentication; RFC 2085 HMAC-MD5 IP Authentication with Replay Prevention; RFC 2401 Security Architecture for the Internet Protocol; RFC 2410 The NULL Encryption Algorithm and Its Use With IPSec; RFC 2411 IP Security Document Roadmap; RFC 2402 IP Authentication Header; RFC 2412 The OAKLEY Key Determination Protocol; RFC 2451 The ESP CBC-Mode Cipher Algorithms; RFC 2403 The Use of HMAC-MD5-96 within ESP and AH RFC 2404 The Use of HMAC-SHA-1-96 within ESP and AH; RFC 2405 The ESP DES-CBC Cipher Algorithm With Explicit IV; RFC 2406 IP Encapsulating Security Payload (ESP); RFC 2407 The Internet IP Security Domain of Interpretation for ISAKMP;</p>
Protocol & Standards	<p>RFC 2408 Internet Security Association and Key Management Protocol (ISAKMP); RFC 2409 The Internet Key Exchange (IKE()); RFC 2857 The Use of HMAC-RIPEMD-160-96 within ESP and AH; RFC 2516 PPPoE; RFC 2637 PPTP; UPnP.</p>
Speed	<p>LAN Port: 10/100M, Half or Full Duplex, auto-negotiation, Auto MID/MID-X WAN Port: 10/100M, Half or Full Duplex, auto-negotiation</p>
Cabling	<p>10 Base-T - 2-pair UTP Cat. 3, 4, 5, up to 100m (328 ft) 100 Base-TX -2-pair UTP Cat. 5, up to 100m (328 ft)</p>



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Management	Web
Internet Connection Type	Fixed IP, PPPoE, DHCP, DHCP with host/domain name, SingTel RAS plan, PPTP client with optional ID selection, L2TP, Telstra Big Pond
Maximum Clients	253
Maximum concurrent Sessions	TCP+UDP = 2000+600 (NAT Entries)
PPTP Pass through	100 entries
IPSec Pass through	100 entries
L2TP Pass through	100 entries
Firewall Policy	60 entries total
Service List database	72 entries Max.
URL Filtering	50 entries Max.
Logging	Max. logging capacity 100 entries for each: Dos attacks log; Access control log; Internet connections log; Firewall rules log and VPN log
Dynamic DNS	www.dyndns.org , www.dtdns.com , www.3322.org , www.2221.org
DHCP clients	253
Routing	RIPv1, RIPv2B, RIPv2M or Static routing table (20 entries)
WAN Port MAC Address	Manually configure or Copy from PC
MAC Access Control	Yes
Internet Application Compatibility	See Appendix
Interface Ports	1x WAN and 3x LAN
LED Indicators	Power, Status, LAN (LNK/ACT & 100), WAN, PPPoE and DMZ (LNK/ACT & 100)
Other Feature	Remote Management (user-definable communication port) UPnP support (discovery, NAT transversal) Optional Password protection for web configuration interface Protection DoS attack
Power Supply	Power Requirements: 12V DC, 1200 mA Max.; Power Consumption: 14.4W
Operating Environment	Operating: Temperature 0 ~ 40 degree C; Relative Humidity 0~95% (non-condensing)
Regulatory Compliance	CE EN55022 Class B & EN55024
Dimensions	148 x 120 x 30 mm (W x D x H)



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Appendix

NAT Compatibility List (tested with firmware version 1610)

Name	Status	Port	Note
Age of Empires	LAN: OK Peer to Peer: OK ZoneMatch: OK	No setting	
Yahoo Messenger (4.6)	Message: OK Voice/Chat/Video: OK File transfer: OK	Default setting	
MSN Messenger, H323 (CUseeME & MS NetMeeting & TGI Phone)	Send message: OK File transfer Rx: OK File transfer Tx: OK Phone: OK NetMeeting: OK CuSeeMe: OK	Default setting	
ICU II (ICU 2)	Message: OK Call in Directory: OK Direct Connect: OK	Default setting	
Internet Phone	Send message: OK Phone: OK	Default setting	
ICQ2001b	Message: OK File transfer: OK Phone (PC<->PC): OK	Default setting	
Diablo II	Game Server: OK a) Peer to Peer: OK b) Peer to Peer: OK	6112: server in (a) 4000: server in (b)	a) By game server b) Connect directly
Quake II	Join server: OK Start server: OK	27910: server	Test in English edition windows.
Star Craft + Patch1.08b	Battle.Net: Client: OK Host: OK	6112 for server	
MIRC	Send message: OK	Default setting	
IP_PHONE	Send message: OK Phone: OK	Default setting	
Crazy Arcade	Join server: OK	Default setting	

Ordering Information

Model	Description
RRT-214	4 Port VPN Router with 10 Tunnels support

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