

LanRover™ VPN Suite



Easy set-up and rapid deployment for remote access and LAN-to-LAN applications

KEY FEATURES

- **Enhanced ease of use and deployment via preconfigured options**
- **Universal network adaptability via multiple configuration options**
- **Remote access and LAN-to-LAN connectivity via public Internet Protocol networks**

Reduce the cost of WAN communications without sacrificing security, speed or efficiency by connecting all users in a complete, end-to-end virtual private networking solution with LanRover™ VPN Gateway 6.7, LanRover™ VPN Gateway Plus 6.7 & LanRover™ VPN Express 6.7.



Intel® VPN technology combines powerful, inexpensive Internet-based access with strong encryption, tunneling and other security features for 24x7 connectivity at a fraction of the cost of other means for connectivity, such as leased-lines, ISDN, frame relay, X.25 and other private WAN options. Even small- to mid-size businesses can have protected WAN and remote access capabilities that once were limited to the largest corporations.

The LanRover™ VPN Suite is the cornerstone of Intel's total virtual private networking solution – an array of security features and components that integrate easily into any existing network architecture. The client software provides the intuitive configuration and management features that enable administrators to use VPN to its highest potential.

Feature	Benefit
VPN connectivity supporting client-to-network, network-to-client and extranet-to-network access	More reliable communications among all network users
ICSA-certified, circuit-level firewall protects against unauthorized access	Trusted connections, enhanced security
Multiple authentication options include Shiva® Certificate Authority, Shiva® Access Manager, Entrust*, RADIUS*, Security Dynamics*, Windows NT*	Enhanced security and interoperability
Up to 10-12Mbps of throughput with LanRover™ VPN Gateway Plus; up to 4-6Mbps of throughput with LanRover™ VPN Gateway; up to 2-3Mbps of throughput with LanRover™ VPN Express 6.7	Flexible choice – the hardware capability to match your performance need
Strong encryption technology supporting key lengths of up to 168 bits	Trusted connections through the Internet
Intuitive, Windows® OS-based utilities for centralized and remote management	Easy to understand, install and use; flexibility to adapt as needs evolve
Scalable and stackable, supporting up to 1,024 simultaneous tunnels per Gateway	Ease of network growth without disrupting network performance
Optional V.35 interface across all three products	Lower costs for branch offices

LanRover™ VPN Gateway 6.7, LanRover™ VPN Gateway Plus 6.7 and LanRover™ VPN Express 6.7

ARCHITECTURE

- **Intel® Pentium® processor-based PC architecture**
- **Solid-state design (no moving parts)**
- **Protected OS Kernel**
- **Optional hardware acceleration in the LanRover™ VPN Gateway offloads intensive encryption/decryption to a dedicated ASIC**

Overview

Whether your goal is to improve performance or lower the cost of connectivity, now you can do both with LanRover™ VPN Gateway 6.7, LanRover™ VPN Gateway Plus 6.7 and LanRover™ VPN Express 6.7. The LanRover family fits seamlessly into existing networks, providing remote users with secure communications transferred via the public Internet at a fraction of the cost of leased-line alternatives.

LanRover VPN technology features circuit-level firewall protection, providing support for all inbound and outbound proxies for optimum security. It supports a range of authentication options including RADIUS*, Shiva® Certificate Authority, Entrust*, Shiva® Access Manager, Security Dynamics*, Windows NT* and Challenge Phrase*. Strong encryption, capable of 56-, 112- and 168-bit DES, offers resistance to even the heaviest brute force attacks.

LanRover VPN Gateway and LanRover VPN Gateway Plus support up to 1,024 simultaneous tunnels (up to 50 for LanRover VPN Express 6.7) and are stackable, offering true scalability as the network grows and evolves.

Applications

- Sales staff and telecommuters access the corporate network using the LanRover™ VPN Gateway via the Internet to reduce their company's long-distance expenses.
- A home-nursing professional accesses patient records via dial-up and a 56kbps modem. By upgrading to VPN technology and a cable modem, she cuts her networking costs and boosts connection speed to 500kbps – nine times faster.
- A high-tech manufacturer needs a secure link to its vendors, many of whom are located out of state. LanRover's strong VPN technology enables the transfer of mission-critical information over the public Internet, in total privacy.
- A company hires a consultant on a 30-day contract. LanRover™ VPN Gateway and Shiva® Certificate Authority tightly control his network access – and instantly disable it if his contract is terminated early.



Shiva® Certificate Authority and Shiva® Certificate Authority Pro

Ensure the highest level of network security, automatically authenticating all users before they gain access. Shiva® Certificate Authority and Shiva® Certificate Authority Pro enable network managers to execute and enforce rigorous X.509 role-based security protocols.

Automatically generate, issue, renew and revoke X.509 digital certificates for each network user and instantly notify all other users in the network of those changes, terminating communications with invalid certificate holders.

Using award-winning InfoCrypt™ technology, this software employs asymmetric public key cryptography to generate 512-, 1,024- and 2,048-bit certificate key lengths for trusted connections. Simplified control features enable authorized users to manage local and remote certification functions.

- Standard X.509 digital certificates
- Support for up to 2,048-bit public key length
- Secure RSA technology to protect key transfers
- Certificate changes transparent to users
- Invalid users automatically locked out of the system



Shiva® VPN Client

Provide remote employees, vendors and business partners with secure, controlled access to network resources at a fraction of the cost of a dedicated long-distance connection. From a desktop or laptop, Shiva® VPN Client offers encrypted tunnels for transferring mission-critical information in complete security via the public Internet – all while maintaining overall network performance.

Shiva VPN Client interoperates with other industry-standard authentication/authorization schemes to deliver seamless connectivity across a wide range of last mile technology.

- IPSec-standard or SST tunnels across public or private networks
- Asymmetric 3 DES encryption up to 168-bit keys
- RSA technology at up to 2,048 bits for authentication and key management
- Support for standard authentication protocols
- Transparent to the end-user



SPECIFICATIONS	LanRover™ VPN Gateway 6.7	LanRover™ VPN Gateway Plus 6.7	LanRover™ VPN Express 6.7
OPTIONS			
Encryption	56-, 112-, 156-bit DES	56-, 112-, 156-bit DES Crypto accelerator card of dedicated ASICs that accelerate standard and triple-DES encryption Direct WAN connection through a CSU/DSU	56-, 112-, 156-bit DES NIST FIPS 46-1-standard DES encryption Direct WAN connection through a CSU/DSU
X.21/V.35 Serial Interface Cards	Direct WAN connection thru a CSU/DSU		
INTEL SUPPORTED PRODUCTS			
Shiva® VPN Client Software for Windows® 95/98/NT Clients	Yes	Yes	Yes
Shiva® Certificate Authority for Support of X.509 Digital Certificates	Yes	Yes	Yes
Shiva® Access Manager	Yes	Yes	Yes
INTERFACES			
IEEE 802 Ethernet	Yes	Yes	Yes
10BASE-T/100BASE-TX (10/100Mbps)	Yes	Yes	Yes
RS-232 for Administration	Yes	Yes	Yes
Serial Interface	v.35 optional	v.35 optional	v.35 optional
STANDARDS COMPLIANCE	IPSec security specification proposed by the Internet Engineering Task Force (IETF) NIST FIPS 46-1-standard DES encryption IETF RFC standards #1631, 1825, 1826, 1827, 1828, 1929, 1851, 1852, 2138, 2139 and 2401-2412 ICSA 1.0 IPSec certification		IETF RFC standards # 1631, 1825, 1826, 1827, 1828, 1929, 1851, 1852, 2138 and 2139
ELECTRICAL			
Line Voltage	100/115/230 VAC	100/115/230 VAC	100/115/230 VAC
Frequency	50/60Hz	50/60Hz	50/60Hz
Maximum Power Consumption	5 amps	5 amps	1 amps
PHYSICAL			
Height	6in (15.24cm)	6in (15.24cm)	1.7in (4.3cm) (EIA standard IU)
Width	16in (40.64cm)	16in (40.64cm)	1.7in (43.2cm)
Length	16.5in (41.94cm)	16.5in (41.94cm)	9.25in (23.5cm)
19-rack Mount Kit	Yes	Yes	Yes
ENVIRONMENTAL			
Operating Temperature	41° - 104° F (5° - 40° C)	41° - 104° F (5° - 40° C)	41° - 104° F (5° - 40° C)
Storage Temperature	-40° - 158° F (-40° - 70° C)	-40° - 158° F (-40° - 70° C)	-40° - 158° F (-40° - 70° C)
Relative Humidity	10% - 80%, noncondensing	10% - 80%, noncondensing	10% - 80%, noncondensing

WHAT'S NEW IN RELEASE 6.7?

- Dual-default gateway support for two routing domains with ease of integration into an existing environment and increased security capabilities.
- Enhanced RADIUS* accounting support for greater manageability (improvements allow network administrators to track network usage statistics for individual VPN users).
- RADIUS* authentication using Challenge Handshake Authentication Protocol (CHAP) for more trusted connections.
- Pass-through authentication to make our VPN clients easier to use.
- .INI file improvements make our VPN client easier to deploy and use.

FOR PRODUCT INFORMATION

World Wide Web	www.shiva.com
U.S. and Canada	800-977-4482
Europe	+44-1793-431-155
Japan	+81-298-47-0800
Hong Kong, Taiwan, Korea, Singapore and ASEAN	+65-735-3811
Australia	+61-2-9937-5800

CUSTOMER SUPPORT

Shiva Customer Support Services offers a broad selection of programs including extended phone support, upgrades, parts replacement, on-site services and installation. For more information, contact us on the World Wide Web at www.shiva.com/prod or call 1-781-687-1400 for technical support and related issues. Service and availability may vary by country.

ORDER CODES

LanRover™ VPN Express NA	VPNE3DES
LanRover™ VPN Express V35 NA	VPNEV353DES
LanRover™ VPN Gateway NA	VPNG3DES
LanRover™ VPN Gateway NA w/Starter Kit	KVPNGS3DESUS
LanRover™ VPN Gateway V35 NA	VPNGV353DES
LanRover™ VPN Gateway V35 NA w/Starter Kit	KVPNGSV353DESUS
LanRover™ VPN Gateway Plus NA	VPNPL3DES
LanRover™ VPN Gateway Plus NA w/Starter Kit	KVPNGPL3DESUS
LanRover™ VPN Gateway Plus V35 NA	VPNPLV353DES
LanRover™ VPN Gateway Plus V35 NA w/Starter Kit	KVPNGPLSV353DUS

For more information on our products or for a list of frequently asked questions, visit our Web site at:
www.shiva.com/remote/vpn.html

Intel Network Systems, Inc.
28 Crosby Drive
Bedford, MA 01730 USA
1.800.977.4482
sales@shiva.com

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