



Network Security

Check Point network security solutions are the market-leading choice for securing the network infrastructure.

VPN-1 UTM Edge Industrial

Robust network security designed for the production floor

YOUR CHALLENGE

You need to establish secure and scalable communications with the machines on the production floor using traditional data networks. However, you are concerned about the security for critical equipment and need a reliable security gateway that can withstand exposure to varying temperatures and vibrations while stopping attacks.

OUR SOLUTION

VPN-1® UTM Edge™ Industrial unified threat management (UTM) appliances combine antivirus, firewall, intrusion prevention, and VPN technologies to protect networked industrial equipment on the production floor from unauthorized access and attack. VPN-1 UTM Edge Industrial appliances comply with industrial mechanical specifications for dust, heat, and vibration, maximizing durability in harsh environments. And they can be managed by Check Point SMART™ (Security Management Architecture) management solutions, including SmartDefense™ Services, which protect against new threats by providing real-time defense updates and configuration advisories.

ROBUST MECHANICAL DESIGN

The solid-state design of VPN-1 UTM Edge Industrial appliances has no moving parts that could wear out over time, and it has flexible mounting options such as DIN rail, rack, and wall mounting. VPN-1 UTM Edge Industrial appliances also support 110-220V AC, 24V DC, and 5V DC power input, which allow the device to be easily integrated into most industrial environments.

RELIABLE SECURITY FOR INDUSTRIAL NETWORKS

VPN-1 UTM Edge Industrial appliances secure all common IP services with Check Point-patented Stateful Inspection and Application Intelligence™ technologies. More than 150 predefined applications, services, and protocols are also supported out-of-the-box, including instant messaging, multimedia services, peer-to-peer applications, Voice over Internet Protocol (VoIP), and Web applications. The appliances include 802.1x port-based authentication, enabling organizations to control network access to machines based on endpoint security policy compliance and user access privileges.

PRODUCT DESCRIPTION

VPN-1® UTM Edge™ Industrial is a unified threat management (UTM) appliance that combines antivirus, firewall, intrusion prevention, and VPN technologies to protect networked industrial equipment from unauthorized access and attack. VPN-1 UTM Edge Industrial appliances comply with industrial mechanical specifications for dust, heat, and vibration, maximizing durability in harsh environments.

PRODUCT FEATURES

- Integrated antivirus, intrusion prevention, firewall, and VPN
- Centralized, large-scale management
- Industrial enclosure with flexible mounting and power input options

PRODUCT BENEFITS

- Provides robust security and connectivity
- Simplifies deployment and management
- Maximizes durability in extreme industrial environments

NGX™

The NGX platform delivers a unified security architecture for Check Point.

HIGH AVAILABILITY

VPN-1 UTM Edge Industrial appliances support dual WAN connections to ensure constant connectivity. With support for dialup backup, these gateways can fail over to a standby dialup or cellular network connection by using an external serial or USB modem, in case the primary connection goes down. For complete redundancy, automatic failover is also supported across two VPN-1 UTM Edge Industrial gateways.

DYNAMIC NETWORKS

In addition to acting as full-feature firewall routers, VPN-1 UTM Edge Industrial appliances can operate in transparent bridge mode, allowing a network segment or machine on the production floor to be isolated from other networks within minutes, without reconfiguring IP addresses. By supporting the Spanning Tree Protocol (IEEE 802.1d), multiple VPN-1 UTM Edge Industrial bridge devices can work together and interoperate with Ethernet bridges and switches in a fully redundant topology.

In addition, port- and tag-based VLANs can be defined, enabling the securing of multiple isolated network zones by a single security device.

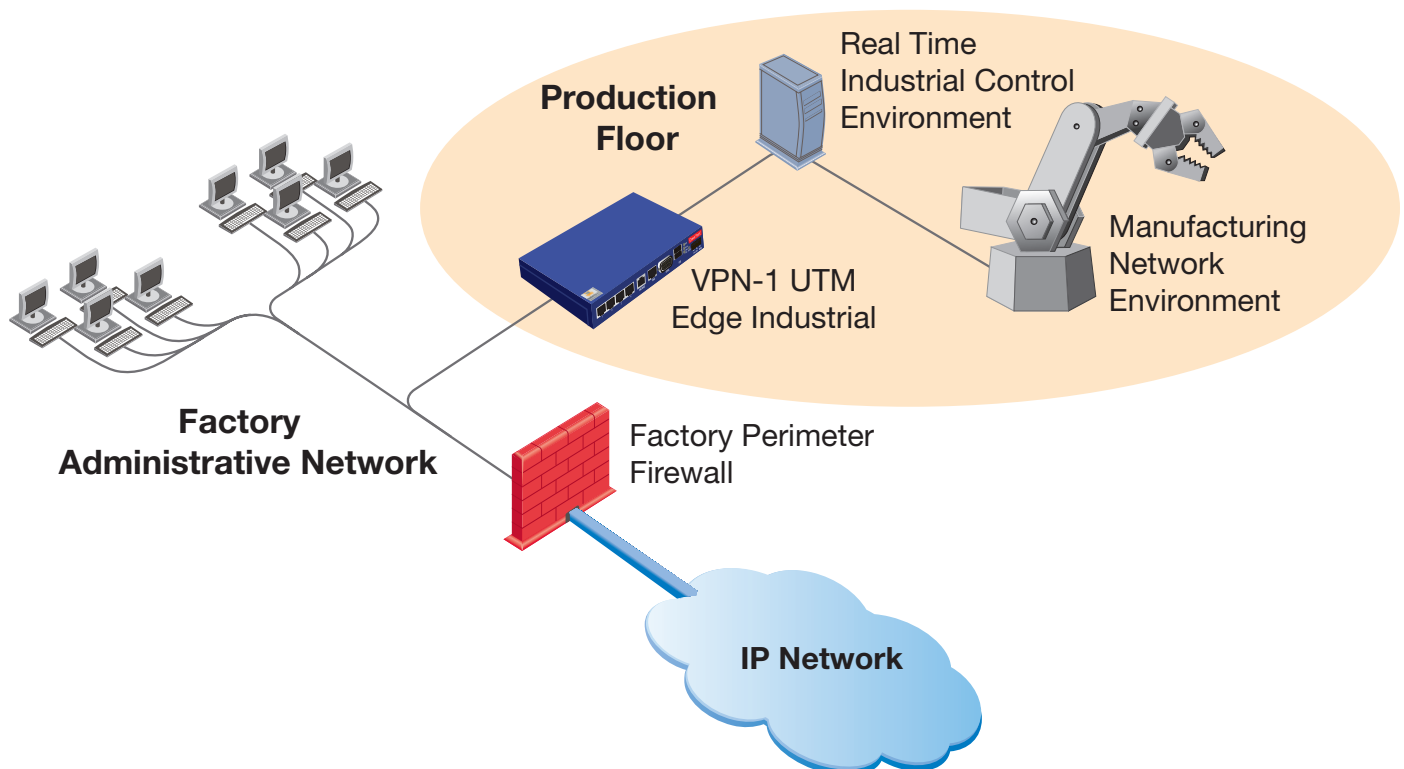
For complex routed networks, VPN-1 UTM Edge Industrial appliances support Open Shortest Path First (OSPF) dynamic routing. This enables easy deployment across multiple sites and reduces the configuration cost of keeping manufacturing sites current with frequent corporate network changes.

PREEMPTIVE DEFENSES AGAINST ATTACKS

VPN-1 UTM Edge Industrial appliances include SmartDefense, Check Point's integrated intrusion prevention capability, to provide preemptive network- and application-layer security for machines. This ensures that critical equipment is protected from worms, viruses, DoS and DDoS assaults, and other known and unknown attacks. SmartDefense prevents the critical equipment from having to be taken offline or becoming damaged due to worms or viruses entering the network. It also minimizes the need to invest in standalone intrusion prevention systems (IPS) at the edge of the network. With the SmartDefense wizard, administrators can ensure correct configuration simply and effectively.

INTEGRATED GATEWAY ANTIVIRUS FOR IN-DEPTH DEFENSE

Integrated gateway antivirus protection is included with VPN-1 UTM Edge Industrial appliances to provide an extra layer of defense against worms and viruses before they can enter the network. VPN-1 UTM Edge Industrial appliances provide streaming antivirus protection that can accommodate files of unlimited size without affecting network performance. Machines can be configured to automatically receive antivirus signature updates, along with real-time security updates and configuration advisories from SmartDefense Services.



VPN-1 UTM Edge Industrial security appliances provide distributed enterprises with secure connectivity for their manufacturing sites and can be centrally managed by Check Point SMART management.

VPN CONNECTIVITY, COMMUNITIES

With corporations turning to virtual private networks (VPNs) to link manufacturing sites and offices, VPN-1 UTM Edge Industrial appliances ensure communications privacy with hardware-accelerated IPsec VPN, which offers strong encryption and authentication.

Check Point simplifies VPN setup with VPN communities, enabling organizations to add new sites easily with reduced deployment time and errors. By defining a VPN community, organizations can quickly configure all gateways within a VPN in one step.

SMART MANAGEMENT

VPN-1 UTM Edge Industrial appliances can be managed via Provider-1®, SmartCenter™ UTM, or SmartCenter Power, which includes SmartLSM™ template-based management for quick, large-scale deployment. These management applications are part of the Check Point SMART security management architecture.

SMART provides unified security architecture for enterprises down to mid-size businesses. It also enables convenient and consistent security definition for the entire network—perimeter, internal, Web, and endpoint security—from a single, centralized management console.

VPN-1 UTM EDGE INDUSTRIAL TECHNICAL SPECIFICATIONS

	8	16	32	U
Total users	8	16	32	Unlimited
Hardware				
Firewall throughput (Mbps)	80	80	80	150
VPN throughput (Mbps)	20	20	20	30
Concurrent connections	8,000			
Integrated four-port LAN switch	4-port 10/100 Mbps full duplex LAN switch with automatic crossover (MDI-X) detection			
10/100 WAN port	✓	✓	✓	✓
10/100 DMZ/WAN2 port	✓	✓	✓	✓
2 x USB 2.0 port	✓	✓	✓	✓
Console port (serial)	✓	✓	✓	✓
Mounting options	DIN rail, rack, or wall mounting			
Anti-theft slot	✓	✓	✓	✓
Firewall and security features				
Firewall	Stateful Inspection with Application Intelligence			
Application Intelligence SmartDefense (IDS/IPS)	✓	✓	✓	✓
Port-based security (802.1x network access control)	✓	✓	✓	✓
Port and tag-based VLAN	✓	✓	✓	✓
Secure hot spot (guest access)	✓	✓	✓	✓
Add-on services*				
Gateway antivirus	✓	✓	✓	✓
Antivirus supported protocols	FTP, HTTP, IMAP, NBT, POP3, SMTP, UDP ports, and user-defined TCP			
On-the-fly decompression	✓	✓	✓	✓
Unlimited file size inspection	✓	✓	✓	✓
Centralized email antivirus and anti-spam	✓	✓	✓	✓
Web filtering	✓	✓	✓	✓
VPN				
Remote access users	1	10	15	25
Remote access client software	VPN-1 SecuRemote® (included)/L2TP IPsec VPN client			
Site-to-site VPN tunnels (managed)	100 tunnels			
Remote access VPN client	✓	✓	✓	✓
Remote access VPN server	IPsec and L2TP IPsec			
IPsec features	Hardware accelerated DES, 3DES, AES, MD5, SHA-1, Hardware Random Number Generator (RNG), Internet Key Exchange (IKE), Perfect Forward Secrecy (PFS), IPsec Compression, IPsec NAT Traversal (NAT-T)			
Route-based VPN	✓	✓	✓	✓
Site-to-site VPN user and gateway authentication methods	Check Point Internal Certification Authority (Diffie-Hellman 1,024-bit PKI) digital certificates, preshared secrets, X.509 digital certificates			

*Requires additional purchase of service.

	8	16	32	U
Networking				
WAN access protocols	DHCP, PPPoE, PPTP, static IP, Telstra			
Network address translation	✓	✓	✓	✓
DHCP client, relay, and server	✓	✓	✓	✓
Dead internet connection detection (DCD)	✓	✓	✓	✓
Routing options	OSPF dynamic routing, source routes, static routes			
Transparent bridge mode	✓	✓	✓	✓
High availability (HA)				
Backup VPN gateways (MEP)	✓	✓	✓	✓
Backup ISP	✓	✓	✓	✓
Dialup backup	Yes: with external USB/serial modem			
Automatic Gateway Failover (HA)	✓	✓	✓	✓
Traffic management				
Traffic shaper (QoS)	Advanced			
DiffServ tagging	✓	✓	✓	✓
Traffic monitoring	✓	✓	✓	✓
Management support				
Management	HTTP, HTTPS, serial CLI, SmartCenter, SMP, SSH			
NTP automatic time setting	✓	✓	✓	✓
Syslog logging	✓	✓	✓	✓
TFTP rapid deployment	✓	✓	✓	✓
SNMP monitoring	✓	✓	✓	✓
Other hardware specifications				
Physical dimensions (W x H x D)	200 x 32 x 128 mm			
Weight	650g			
24V DC power input	Max power 9W Consumption 14W (including USB devices)			
5V DC power supply unit (included)	Max power 9W Consumption 14W (including USB devices)			
Temperature: Storage/transport	-20~80°C			
Temperature: Operation	0~55°C			
Humidity: Storage/operation	10%~95% (noncondensed)			
Warranty	One-year hardware			

For more detailed specifications, please refer to the VPN-1 UTM Edge Industrial Physical, Environmental, Hardware and Reliability Specifications table at http://www.checkpoint.com/products/vpn-1_edge/detailed_specs.html

CONTACT CHECK POINT

Worldwide Headquarters

5 Ha'Solelim Street, Tel Aviv 67897, Israel | Tel: 972-3-753-4555 | Fax: 972-3-575-9256 | Email: info@checkpoint.com

U.S. Headquarters

800 Bridge Parkway, Redwood City, CA 94065 | Tel: 800-429-4391; 650-628-2000 | Fax: 650-654-4233 | www.checkpoint.com

©2003–2007 Check Point Software Technologies Ltd. All rights reserved. Check Point, AlertAdvisor, Application Intelligence, Check Point Express, Check Point Express CI, the Check Point logo, Check Point Pointsec Protector, ClusterXL, Confidence Indexing, ConnectControl, Connectra, Connectra Accelerator Card, Cooperative Enforcement, Cooperative Security Alliance, CoSa, DefenseNet, Dynamic Shielding Architecture, Eventia, Eventia Analyzer, Eventia Reporter, Eventia Suite, FireWall-1, FireWall-1 GX, FireWall-1 SecureServer, FloodGate-1, Hacker ID, Hybrid Detection Engine, IMsecure, INSPECT, INSPECT XL, Integrity, Integrity Clientless Security, Integrity SecureClient, InterSpect, IPS-1, IQ Engine, MailSafe, NG, NGX, Open Security Extension, OPSEC, OSFirewall, Pointsec, Pointsec Mobile, Policy Lifecycle Management, Provider-1, Safe@Home, Safe@Office, SecureClient, SecureClient Mobile, SecureKnowledge, SecurePlatform, SecurePlatform Pro, SecuRemote, SecureServer, SecureUpdate, SecureXL, SecureXL Turbocard, Sentivist, SiteManager-1, SmartCenter, SmartCenter Express, SmartCenter Power, SmartCenter Pro, SmartCenter UTM, SmartConsole, SmartDashboard, SmartDefense, SmartDefense Advisor, Smarter Security, SmartLSM, SmartMap, SmartPortal, SmartUpdate, SmartView, SmartView Monitor, SmartView Reporter, SmartView Status, SmartView Tracker, SofaWare, SSL Network Extender, Stateful Clustering, TrueVector, Turbocard, UAM, UserAuthority, User-to-Address Mapping, UTM-1, VPN-1, VPN-1 Accelerator Card, VPN-1 Edge, VPN-1 Express, VPN-1 Express CI, VPN-1 Power, VPN-1 Power VSX, VPN-1 Pro, VPN-1 SecureClient, VPN-1 SecuRemote, VPN-1 SecureServer, VPN-1 UTM, VPN-1 UTM Edge, VPN-1 VSX, Web Intelligence, ZoneAlarm, ZoneAlarm Anti-Spyware, ZoneAlarm Antivirus, ZoneAlarm Internet Security Suite, ZoneAlarm Pro, ZoneAlarm Secure Wireless Router, Zone Labs, and the Zone Labs logo are trademarks or registered trademarks of Check Point Software Technologies Ltd. or its affiliates. ZoneAlarm is a Check Point Software Technologies, Inc. Company. All other product names mentioned herein are trademarks or registered trademarks of their respective owners. The products described in this document are protected by U.S. Patent No. 5,606,668, 5,835,726, 5,987,611, 6,496,935, 6,873,988, 6,850,943, and 7,165,076 and may be protected by other U.S. Patents, foreign patents, or pending applications.