



The Intelligent Systems

The **HENGE**[™] Industrial Firewall Series,
with Future-proof Security and Connectivity



Industrial Firewall Solutions with VPN Router



The Henge™ Industrial Firewall Series

is a fully integrated industrial multi-port firewall router with VPN function. The fully equipped, broadband-capable firewall router offers a stateful packet inspection (SPI) firewall, denial-of-service (Dos)/distributed denial-of-service (DDoS) protection and intrusion prevention, port scan detection, and real-time alerts. It gives additional protection for machinery and equipment installed on the secure side of the firewall. Equipped with IPSec & SSL VPN functions, the **Henge™** industrial firewall provides a remote access infrastructure to secure connections, and helps machine builder/system integrator to design easily maintained systems. Furthermore, its tough fully-rugged design is ideal for harsh environment applications. With wide temperature range to 70°C (158°F) degree, it offers reliable communication network in extreme temperature conditions.

Pairing VPN capabilities, the **Henge™** industrial firewall series

is an ideal endpoint connectivity and security solution for industrial automation, process control, energy and medical instrument remote maintenance application.

Protect Critical Assets Against Cyber Threats

In recent years, rising demand in electricity intensively presses power plants to provide more renewable energy at lower price. By leveraging existing IP infrastructure, power plants can maximize plant efficiency and reliability through automation, integration, and optimization of the entire plant. However, the electrical, environmental and operational requirements of process control system can make IT security solutions unsuitable for control networks. As a result, many critical systems operate with little protection against accidental or malicious cyber attacks. Entire plants have been shut down due to an infected USB thumb drive.



The stateful firewall router can not only examine a packet more deeply to eliminate the chance a packet pretending what it's not and possible damage, but also can keep track of incoming and outgoing traffic's connection states. With the aid of stateful firewall/NAT function, the **Henge™** industrial firewall series provides comprehensive protection for critical cyber assets against network security threats.

Increase Operational Efficiency

In a volatile world economy, market presents both challenges and opportunities for companies, such as setting up profitable growth, expanding into new territories, differentiation and more. Traditionally, machine control

network for automation is a closed network with narrow bandwidth, which makes remote machine diagnosis more difficult. Now, thanks to the rapid decline in IP network cost. With remote-access solution, machine builder/system integrator can improve business operations by reducing emergency service calls, inefficient on-site technical services, and so on. Furthermore, the advantages include remote accessibility, easy installation and integration, and better scalability, flexibility and cost effectiveness.

For remote machine diagnosis scenarios, the firewall router can be used as a VPN gateway for IPSec/SSL VPN tunnels. With VPN gateway and client functions, the firewall router supplies encrypted network connectivity over a possibly long physical distance and work over both private networks as well as public networks like the Internet. The **Henge™** industrial firewall series is designed to provide remote machine monitoring with VPN tunnels to increase operational efficiency, reduced costs and increased margins.



Endure Harsh Environments

Designed for machine-to-machine applications, the **Henge™** IFA3610 industrial firewall offers extended wide temperature range from -20°C to 70°C. (-4°F to 158°F)

The **Henge™** industrial firewall series is ideal for a variety of applications in secure data communication segment which requires stateful firewall/NAT, industrial protocols filter, reliable and secure VPN tunnels, and easy installation and maintenance.

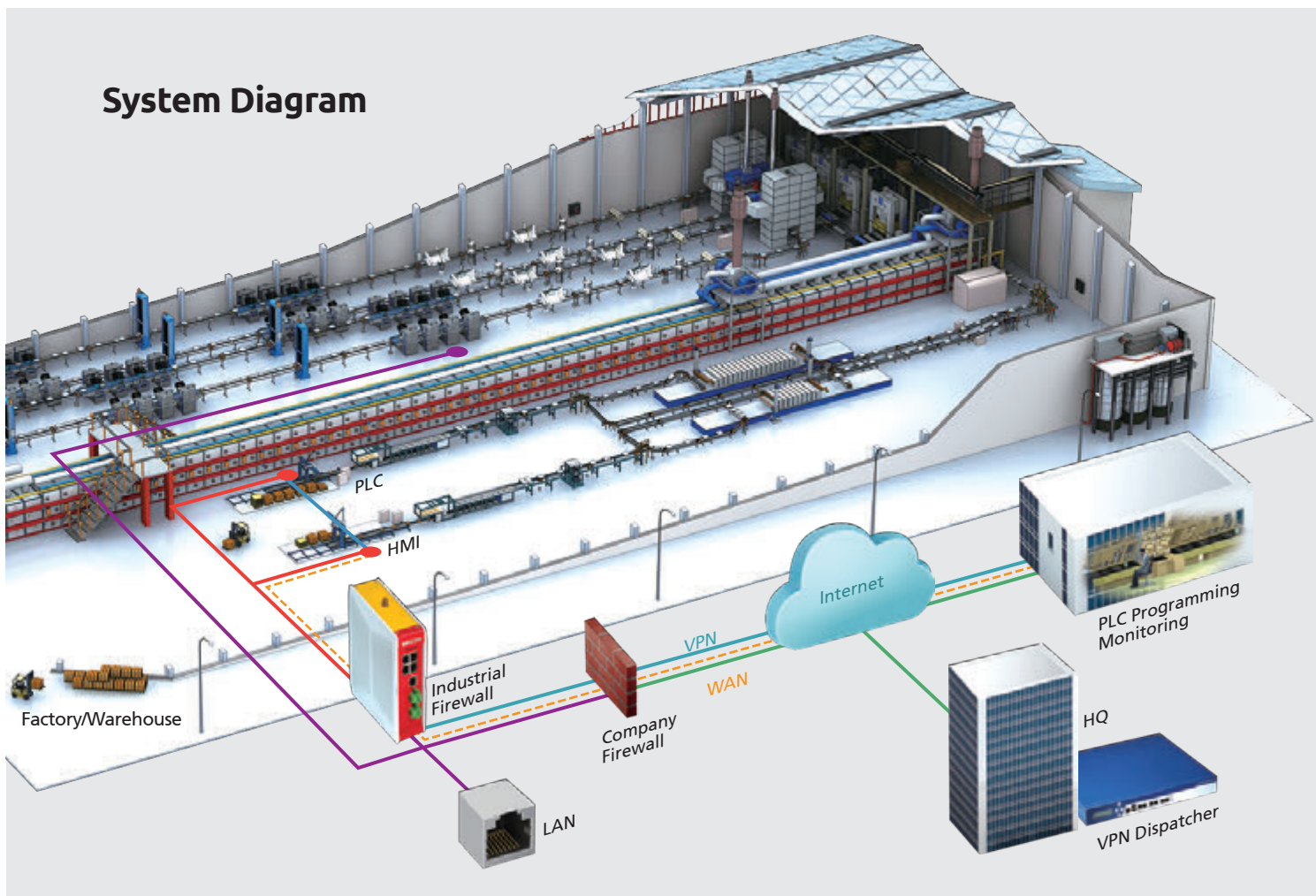


Connect Valuable Devices with Simplicity, Efficiency, and Complete Security

With the **Henge™** VPN Dispatcher you can define and manage network connections with extreme flexibility, adapting them to suit your specific needs:

- Create multiple and distributed networks using VPN gateway to gateway
- Enable remote user connections to your network and take advantage of the intuitive VPN client, which is universally compatible with Windows, Mac OS X and Linux
- Define custom per-user profiles to provide enhanced security and more control over user connections

System Diagram



Features

#Industrial Firewall/VPN Dispatcher

Network Security

- Stateful Packet Firewall
- Intrusion Prevention
- SNMP Support
- Portscan Detection
- DoS and DDoS Protection
- SYN/ICMP Flood Protection
- VLAN Support (IEEE802.1Q)

True SSL/TLS VPN (OpenVPN)

- Encryption; DES, 3DES, AES 128/192/256-bit, CAST5, Blowfish
- Authentication: Pre-Shared Key, X.509-Certificates, Certification Authority, and Local
- Support for VPN over HTTPS Proxy (Open VPN)
- PPTP Passthrough
- VPN Client-to-Site
- VPN Client for Microsoft Windows, Mac OS X and Linux
- Multiple Logins per User (Optional)
- VPN Failover

VPN- IPsec

- Encryption; 3DES, AES b128/256-bit, MD5, SHA1
- Diffie Hellman (2,5,14,15,16,17,18)
- Authentication:Pre-Shared Key, RSA Keys X.509-Certificates IKEv1
- L2TP
- DPD (Dead Peer Detection)
- NAT-Taversal
- Compression
- PFS (Perfect Forward Secrecy)
- VPN Site-to-Site
- VPN Client-to-Site (Road Warrior)
- Integrated Certificate Authority

Network Address Translation

- Destination NAT
- One-to-One NAT
- Source NAT (SNAT)
- IPsec NAT Traversal

Bridging

- Firewall Stealth Mode
- OSI-Layer 2 Firewall-Function
- Spanning Tree

Update and Backup

- Scheduled Automatic Backup
- Instant Recovery/Backup to USB Stick

Logging and Reporting

- Real-Time Dashboard
- Event Handling and Notification
- Live Log Viewer
- Network/System/Performance Statistics
- Rule-Based Logging Settings (Firewall Rules)
- Syslog: Local or Remote

Specification

Model Name	Industrial Firewall Multi-port VPN Router			VPN Dispatcher
	IFA1610	IFA2610	IFA3610	IVD1000-S/A
Network Security	Yes	Yes	Yes	Yes
VPN Connections	Unlimited	Unlimited	Unlimited	25/100 Licenses
VPN Function	Client/Site-to-Site	Client/Site-to-Site	Client/Site-to-Site	VPN Management
LAN bypass	-	-	Yes	Yes
High Availability	-	Yes	Yes	Yes
WAN Failover	-	Yes	Yes	Yes
Network Address Translation	Yes	Yes	Yes	Yes
Routing	-	Yes	Yes	Yes
Logging/Reporting	Yes	Yes	Yes	Yes
Updates and Backup	Yes	Yes	Yes	Yes
Centralized Management	Yes	Yes	Yes	Yes
Hardware Specification				
Mounting	Wall Mount/Desktop	Wall Mount/DIN Rail	Wall Mount/DIN Rail	Rack Mount
Power Input	24V DC Terminal/DC Jack Input	24V DC Input	Dual 24V DC Input	65W Power Supply
CPU	ARM® Cortex™ A8	ARM® Cortex™ A8	ARM® Cortex™ A8	Intel® Atom™
Memory	512MB	512MB	512MB	1GB
Ethernet	2 x 10/100Mbps	3 x 10/100/1000Mbps	5 x 10/100/1000Mbpsx	6 x 10/100/1000Mbps
Serial Communication	RS232/485	RS232/485	RS232/485	Console Port
USB	2 x USB	1 x USB	1 x USB	2 x USB
Digital Input/Output	-	1xD1/1xDO	1xD1/1xDO	-
Storage	MicroSD 4GB	MicroSD 4GB	MicroSD 4GB	2.5" HDD(RAID)
Cooling	Fanless	Fanless	Fanless	-
Dimension (HxWxD)	114x28x100mm	167x59x140mm	167x59x140mm	44x462x238mm
Operating Temperature	0°C ~ 60°C 32°F ~ 140°F	0°C ~ 60°C 32°F ~ 140°F	-20°C ~ 70°C -4°F ~ 158°F	0°C ~ 40°C 32°F ~ 104°F
Storage Temperature	-20°C ~ 70°C -4°F ~ 158°F	-20°C ~ 70°C -4°F ~ 158°F	-40°C ~ 80°C -40°F ~ 176°F	-20°C ~ 70°C -4°F ~ 158°F
Relative Humidity	Operating 10%~90%, non-condensing	Operating 5%~95%, non-condensing	Operating 5%~95%, non-condensing	Operating 10%~90%, non-condensing
SIM Card Holder	-	Yes	Yes	-
Service & Maintenance	3 Years	3 Years	3 Years	3 Years
Regulation				
Safety	UL 508*	UL 508*	UL 508*	UL
Certification	CE/FCC/RoHS	CE/FCC/RoHS	CE/FCC/RoHS	CE/FCC/RoHS
Protection Class	IP 30	IP 30	IP30	-
Ordering Information	10IF0161000X0*	10IF0261000X0*	10IF0361000X0	TBD

*available in Q4

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