Fully-integrated, Scalable, Rugged HENGÉ™ Series
Secure Valuable Assets

Industry Firewall with VPN Router
Industry Network Storage
The HENGE™ Family

Industrial facilities, systems, machines and devices are getting more and more connected for the benefit of enhanced efficiency. To ensure enhancements come with consistency, NEXCOM HENGE™ family has integrated rich functionality, scalability, and ruggedness into the CoreFort™ Industry Firewall series and the CoreVault™ Industry Network-Attached Storage series to provide reliable security, storage, and networking for industrial applications.

The CoreFort™ Series

The CoreFort™ series is a fully integrated industrial multi-port firewall router with VPN function, the CoreFort™ Industry 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 CoreFort™ Industry 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 CoreFort™ Industry Firewall series provides comprehensive protection for critical cyber assets against network security threats.
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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 Core Fort™ Industry 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 CoreFort™ IFA 3610 Industry Firewall offers extended wide temperature range from -20°C to 70°C (-4°F to 158°F).

The CoreFort™ Industry 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 with Simplicity, Efficiency, Security

With the CoreFort™ 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
The CoreVault™ Series

The CoreVault™ series consists of extremely rugged network-attached storage (NAS) devices to provide high performance, reliability and capacity of data storage in harsh environments. Equipped with a unique storage technology, the series offers high level of data accuracy for use in industries including oil and gas, transportation, industrial automation and more.

High Performance, Reliability, Capacity & Endurance

Furthermore, the CoreVault™ series offers various data recovery options. The Remote Replication feature supports data backup to remote NAS or FTP servers and synchronizes files to remote folders from local folders with better backup efficiency and reduced backup time. It also supports rsync protocol to back up data to remote servers on a scheduled basis. It is compatible with SMB/CIFS, NFS, and AFP protocols for file sharing across Windows, Mac, and Linux/UNIX networks. The CoreVault™ series also supports Access Control List (ACL), enabling system administrators to easily configure user permissions.

The CoreVault™ series is built with a fanless, power-efficient, dust- and water-resistant chassis with IP 54 rating. This sealed enclosure eliminates the use of failure-prone fans, increasing system reliability and preventing dust and water ingress.

The CoreVault™ series is also compliant with EN50155 (railway applications) and EN61373 (vibrations & shocks) to deliver reliable video surveillance recording for a wide variety of railway transportation applications.

With data interception technology, the CoreVault™ provides intelligent data and drive protections against extremes of heat and vibration, making it suitable for a variety of industrial applications.
Network Security
- Stateful (L4) Packet Firewall
- Intrusion Prevention (IPS)
- SNMP Support (V1/V2/V3)
- Portscan Detection
- DoS and DDoS Protection
- SYN/ICMP Flood Protection
- VLAN Support (IEEE802.1Q)

Core (IEEE802.1Q) Protection Translation

Network Address Translation
- Destination NAT
- One-to-One NAT
- Source NAT (SNAT)
- IPSec NAT Traversal

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 (OpenVPN)
- PPTP Passthrough
- VPN Site-to-Site
- VPN Client-to-Client
- VPN Client for Microsoft Windows, MacOS X and Linux
- Multiple Logins per User (Optional)
- VPN Failover

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

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

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

Update and Backup
- Scheduled Automatic Backup
- Instant Recovery/Backup to USB Stick
- Encrypted Backups via e-mail

Industry Network-Attached Storage

Link Aggregation
- Balance-rr
- Active Backup
- Balance-xor
- Broadcast

IEEE 802.3ad
- IEEE 802.1Q
- IEEE 802.1Q

Raid Level
- JBOD
- Raid 0
- Raid 1
- Raid 5

Firmware Upgrade
- Via System Web UI
- Remote Backup
- System Configuration Backup (Stage II)

Backup Solutions
- Network Attached Storage
- NAS
- Rugged Industry Network-Attached Storage

FTP/SANMA/AFP/ACL
- HTTP/HTTPS
- Samba/CIFS
- NFSv4
- FTP

AES Volume Encryption
- Yes (Stage II)

Green Power Management
- IE 9.0 Later
- Mozilla Firefox
- Apple Safari
- Google Chrome

Service & Maintenance
- 3 Years
- 3 Years
- 3 Years
- 3 Years

Certification
- CE/CCC/RoHS
- CE/CCC/RoHS
- CE/CCC/RoHS
- CE/CCC/RoHS

Protection Class
- IP 30
- IP 30
- IP 30
- IP 30

Ordering Information
- 101G0033000X0*

Model Name
- Industry Firewall Multi-port VPN Router
- VPN Dispatcher
- IFA 1610
- IFA 2610
- IFA 3610
- IVD 1000-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
- Yes
- Yes

High Availability
- Yes
- Yes
- Yes
- Yes

WAN Failover
- Yes
- Yes
- Yes
- Yes

Network Address Translation
- Yes
- Yes
- Yes
- Yes

Routing
- Yes
- Yes
- Yes
- Yes

Logging and Reporting
- Yes
- Yes
- Yes
- Yes

Updates and Backup
- Yes
- Yes
- Yes
- Yes

Centralized Management
- Yes
- Yes
- Yes
- Yes

Mounting
- Wall Mount/Desktop
- Wall Mount/DIN Rail
- Wall Mount/DIN Rail
- Rack Mount

Power Input
- 24 V DC Terminal/DC Jack Input
- 24 V DC Input
- Dual 24 V DC Input
- 65 W Power Supply

CPU
- ARMCortex™ A8
- ARM™ Cortex™ A8
- ARM™ Cortex™ A8
- Intel® Atom™

Memory
- 512 MB
- 512 MB
- 512 MB
- 1 GB

Ethernet
- 10/100/1000 Mbps
- 10/100/1000 Mbps
- 10/100/1000 Mbps
- 10/100/1000 Mbps

Network-Attached Storage
- Onboard 4 G eMMC; 512 MB DDR III
- 1 x Gigabit LAN Port
- 1 x Gigabit LAN Port
- 1 x Gigabit LAN Port

Housing
- Metal, Aluminum, Fanless
- Metal, Aluminum, Fanless
- Metal, Aluminum, Fanless
- Metal, Aluminum, Fanless

Environmental Limits
- Operating Temperature: -4°F~158°F
- Storage Temperature: -40°F~176°F
- Humidity: 9%~95%, non-condensing

Service & Maintenance
- 3 Years
- 3 Years
- 3 Years
- 3 Years

Regulation
- Safety
- UL 508
- UL 508
- UL 508
- UL

Certification
- CE/CCC/RoHS
- CE/CCC/RoHS
- CE/CCC/RoHS
- CE/CCC/RoHS

Protection Class
- IP 30
- IP 30
- IP 30
- IP 30

Ordering Information
- 101G0033000X0*

Model Name
- INAS 330

Rugged Industry Network-Attached Storage

Hardware Specification
- CPU/Memory
  - ARMCortex™ A8 ARM CPU
  - Onboard 4 G eMMC; 512 MB DDR III
  - Dual 24 V DC Input
  - 65 W Power Supply

- Memory
  - 512 MB
  - 512 MB
  - 512 MB
  - 1 GB

- Ethernet
  - 10/100/1000 Mbps
  - 10/100/1000 Mbps
  - 10/100/1000 Mbps
  - 10/100/1000 Mbps

- Network-Attached Storage
  - Onboard 4 G eMMC; 512 MB DDR III
  - 1 x Gigabit LAN Port
  - 1 x Gigabit LAN Port
  - 1 x Gigabit LAN Port

- Housing
  - Metal, Aluminum, Fanless
  - Metal, Aluminum, Fanless
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  - Operating Temperature: -4°F~158°F
  - Storage Temperature: -40°F~176°F
  - Humidity: 9%~95%, non-condensing

- Service & Maintenance
  - 3 Years
  - 3 Years
  - 3 Years
  - 3 Years

- Certification
  - CE/RoHS/WEEE
  - FCC/CE/RoHS/WEEE
  - CE/RoHS/WEEE
  - CE/RoHS/WEEE

- Protection Class
  - IP 30
  - IP 30
  - IP 30
  - IP 30

- Ordering Information
  - 101G0033000X0*

*Available in Q2