

# Endian 4i Edge 112

The new generation of Industrial Firewalls



The powerful and scalable desktop industrial solution. All the features included in the product ensure that your remote industrial networks have the highest levels of availability which keeps your business running smoothly.

An intuitive and easy-to-use web interface makes it perfect for almost any industrial application. The Endian 4i Edge 112 is the ideal solution for infrastructure, healthcare and communication industries. Available in DIN rail and wall mount version.

## Highlights

- Simple and secure VPN access
- 2 Gigabit Ethernet ports
- Support for 3G module (external)
- Serial over IP
- 0 to +60°C operating temperature



Performance	4i Edge 112
Firewall Throughput	120 Mbps
VPN Throughput	30 Mbps
IPS Throughput	20 Mbps

Hardware	4i Edge 112
CPU/SoC	ARM Cortex A8
CPU Speed	800 MHz
Power	24V DC Terminal Block/ DC Jack
Case / Form Factor	DIN Rail / Wall Mount / Desktop
Dimensions	120mm x 108mm x 32mm
Weight	550g
Fanless	Yes
Status LED	Yes
Operating Temperature	0°C – +60°C/32°F – +140°F
Storage Temperature	-40°C – +80°C/-40°F – +176°F
Humidity	5% – 95%, Non-condensing
COM Port	RS232/422/485
Digital I/O	-
Ethernet Ports	2 Gigabit
RAM	512M DDR3
Onboard Storage	512 MB
Additional Storage	4 GB
USB Ports	2
Serial/Console Ports	1

# Endian 4i Edge 112

## Network Security

- Stateful Packet Firewall
- **NEW** Application Control (over 160 Protocols including Facebook, Twitter, Skype, WhatsApp and more)
- Demilitarized Zone (DMZ)
- Intrusion Detection and Prevention (Snort)
- Multiple Public IP Addresses
- Multiple WAN
- Quality of Service and Bandwidth Management
- SNMP Support
- VoIP/SIP Support
- SYN/ICMP Flood Protection
- VLAN Support (IEEE 802.1Q Trunking)
- DNS Proxy/Routing
- Anti-Spyware
- Phishing Protection

## WAN Failover

- Automatic WAN Uplink Failover
- Monitoring of WAN Uplinks
- Uplink Types: Ethernet (Static/DHCP), PPPoE, PPTP
- Support for UMTS/GPRS/3G USB Dongles

## Network Address Translation

- Destination NAT
- Incoming Routed Traffic
- One-to-One NAT
- Source NAT (SNAT)
- IPsec NAT Traversal

## Routing

- Static Routes
- Source-Based Routing
- Destination-Based Routing
- Policy-Based Routing (Based on Interface, MAC Address, Protocol or Port)

## Bridging

- Firewall Stealth Mode
- OSI Layer 2 Firewall Functionality
- Spanning Tree
- Unlimited Interfaces per Bridge

## High Availability

- Hot Standby (Active/Passive)
- Node Data/Configuration Synchronization

## Virtual Private Networking

### IPsec

- **NEW** Encryption: Null, 3DES, CAST-128, AES 128/192/256-bit,
- Blowfish 128/192/256-bit, Twofish 128/192/256-bit,
- Serpent 128/192/256-bit, Camellia 128/192/256-bit
- **NEW** Hash Algorithms: MD5, SHA1, SHA2 256/384/512-bit, AES-XCBC
- Diffie Hellman Modes: 1, 2, 5, 14, 15, 16, 17, 18, 22, 23, 24
- Authentication: Pre-Shared Key (PSK), RSA Keys, X.509 Certificates
- IKEv1 & **NEW** IKEv2
- Dead Peer Detection (DPD)
- NAT Traversal
- Compression
- Perfect Forward Secrecy (PFS)
- VPN Site-to-Site
- VPN Client-to-Site (Roadwarrior)
- L2TP User Authentication
- **NEW** XAuth User Authentication

### OpenVPN

- True SSL/TLS VPN
- Encryption: DES, 3DES, AES 128/192/256-bit, CAST5, Blowfish
- Authentication: Pre-Shared Key, X.509 Certificates
- Support for VPN over HTTPS Proxy (OpenVPN)
- PPTP Passthrough
- VPN Client-to-Site (Roadwarrior)
- VPN Client for Microsoft Windows, Mac OS X and Linux
- Possibility of Multiple Logins per User
- VPN Failover
- **NEW** Multiple Server Support Scalability
- **NEW** Support for Mobile Devices (Android, iOS)

### User Management & Authentication

- **NEW** Unified User Management for OpenVPN, L2TP, XAuth
- **NEW** Group Management
- **NEW** Integrated Certificate Authority
- **NEW** External Certificate Authority Support
- **NEW** User Password and Certificate Management (Two-factor Authentication)
- **NEW** Multiple Authentication Servers (Local, LDAP, Active Directory)

## Serial Communication

- **NEW** Serial over IP
- **NEW** Serial-to-Serial Hardware Bridging
- **NEW** Support for RS232, RS422, RS485

## Event Management

- **NEW** More Than 30 Individually Configurable Events
- Email Notifications
- **NEW** SMS Notifications
- **NEW** Powerful Python Scripting Engine

## Extra Services

- NTP (Network Time Protocol)
- DHCP Server
- SNMP Server
- Dynamic DNS

## Logging and Reporting

- **NEW** Reporting Dashboard
- **NEW** Detailed System and Attack Reports
- **NEW** Live Network Traffic Monitoring (powered by ntopng)
- Live Log Viewer
- Network/System/Performance Statistics
- Rule-Based Logging Settings (Firewall Rules)
- Syslog: Local or Remote
- OpenTSA Trusted Timestamping

## Management / GUI

- Easy Web-Based Administration (SSL)
- **NEW** Multi-Language Web-Interface (English, Italian, German, Japanese, Spanish, Portuguese, Turkish, Chinese, Russian)
- Secure Remote SSH/SCP Access
- Serial Console
- Centralized Management through Endian Network (SSL)

## Updates and Backups

- Scheduled Automatic Backups
- Encrypted Backups via E-mail
- Instant Recovery / Backup to USB Stick (Endian Recovery Key)
- Centralized Updates through Endian Network

# Endian Connect Switchboard

## Complete Security for IoT and M2M Networks

The Internet of Things (IoT) era is here and companies need the Endian Connect Switchboard to securely connect their global workforce to their field equipment in order to access information, monitor equipment status, provide enhanced remote services and much more.

