

Endian 4i Edge 515

The new generation of Industrial Firewalls

The Endian 4i Edge 515 brings an unparalleled level of hardware performance and features to the industrial VPN router market. All of this carefully blended with the most intuitive and easy-to-use web interface available makes this product perfect for almost any industrial application.

The 4i Edge 515 works in extreme temperature environments and is ideal for machine building, manufacturing, infrastructure, healthcare and communication industries.

Highlights

- ✔ Simple and secure VPN access
- ✔ 5 Gigabit Ethernet ports
- ✔ 3G module (optional)
- ✔ Serial over IP
- ✔ Digital Input/Output
- ✔ Operating temperature -20°C +70°C

Performance	4i Edge 515
Firewall Throughput	120 Mbps
VPN Throughput	30 Mbps
IPS Throughput	20 Mbps

Hardware	4i Edge 515
CPU/SoC	ARM Cortex A8
CPU Speed	800 MHz
Power	2x Redundant 24V DC Terminal Block
Case / Form Factor	DIN Rail / Wall Mount / Desktop kit
Dimensions	167mm x 59mm x 140mm
Weight	1215g
Fanless	Yes
Status LED	Yes
Operating Temperature	-20°C – +70°C/-4°F – +158°F
Storage Temperature	-40°C – +80°C/-40°F – +176°F
Humidity	5% – 95%, Non-condensing
COM Port	RS232/422/485
Digital I/O	1x Input / 1x Output
Ethernet Ports	5 Gigabit
RAM	512M DDR3
Onboard Storage	512 MB
Additional Storage	4 GB
USB Ports	1
Serial/Console Ports	1



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Network Security

- Stateful Packet Firewall
- 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

- 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
- 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 & IKEv2
- Dead Peer Detection (DPD)
- NAT Traversal
- Compression
- Perfect Forward Secrecy (PFS)
- VPN Site-to-Site
- VPN Client-to-Site (Roadwarrior)
- L2TP User Authentication
- 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
- Multiple Server Support Scalability
- Support for Mobile Devices (Android, iOS)

User Management & Authentication

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

Serial Communication

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

Event Management

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

Extra Services

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

Logging and Reporting

- Reporting Dashboard
- Detailed System and Attack Reports
- 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)
- 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 Platform

The future of IoT security and connectivity

The Endian Connect Platform is the only open, end-to-end platform to provide secure remote connectivity between people, things, processes (infrastructure) and networks. Our solution is built to scale from very small projects to very large, global deployments with thousands or even millions of things connected.

