

# Endian 4i Edge 515

## Die neue Generation von Industrie-Firewalls

Die Endian 4i Edge 515 bringt ein noch nie dagewesenes Niveau an Hardwareleistung und Features in das Marktsegment der Industrie VPN Router. All das vereint mit dem benutzerfreundlichsten Webinterface das derzeit erhältlich ist, machen dieses Produkt perfekt für nahezu jeden industriellen Einsatzzweck.

Die 4i Edge 515 funktioniert in Umgebungen mit extremen Temperaturen und ist ideal für die Industriebereiche Maschinenbau, Infrastruktur, Fertigungswesen, Gesundheitswesen und Kommunikation.

### Highlights

- ✓ Einfacher und sicherer VPN Zugang
- ✓ 5 Gigabit Ethernet Ports
- ✓ 3G Modul (optional)
- ✓ Serial over IP
- ✓ Digitaler Input/Output
- ✓ Betriebstemperatur -20°C bis +70°C



Performance*	4i Edge 515
Firewall Durchsatz	120 Mbit/s
VPN Durchsatz	30 Mbit/s
IPS Durchsatz	20 Mbit/s

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
Maße	167mm x 55mm x 140mm
Gewicht	1215g
Lüfterlos	Yes
Status LED	Yes
Betriebstemperatur	-20°C – +70°C/-4°F – +158°F
Lagertemperatur	-40°C – +80°C/-40°F – +176°F
Luftfeuchtigkeit	5% – 95%, Non-condensing
COM Port	RS232/422/485
Digital I/O	1x Input / 1x Output
Ethernet Ports	5 Gigabit
RAM	512M DDR3
Onboard Speicher	512 MB
Zusatz Speicher	4 GB
USB Ports	1
Serial/Console Ports	1



\*Maximaler Durchsatz, gemessen unter idealen Testbedingungen und unter Verwendung mehrerer Datenströme über mehrere Anschlüsse.

Die tatsächliche Leistung kann je nach Netzwerkbedingungen und aktivierten Diensten variieren.

# Endian 4i Edge 515

## 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

### Die Zukunft der IoT-Sicherheit und Konnektivität

Endian Connect Platform ist die einzige offene End-to-End-Plattform, die eine sichere Remote-Konnektivität zwischen Personen, Geräten, Prozessen und Netzwerken bietet. Unsere Lösung ist maximal skalierbar. Damit ist sie für den Einsatz in kleinen Projekten genauso geeignet wie in sehr großen, globalen Anwendungen mit Tausenden, oder gar Millionen von verbundenen Geräten.

