

# Endian 4i Edge X

The Future of Industrial Security & Edge Computing



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- SIEMENS S7** ✓
- and other ✓

The new 4i Edge X is the most powerful Endian 4i device yet and supports Edge Computing technology (using Docker). This means you can deliver your enterprise or industrial applications to each remote site and have them run locally which lowers bandwidth and app latency and increases security with less data over the Internet.

The most powerful industrial security appliance to satisfy all your industrial security and connectivity requirements. Provides endless connectivity options including Ethernet, 4G or even WiFi. This device is perfect in almost any environment and any network.

## Highlights

- ✓ Simple and secure VPN access
- ✓ 3 Gigabit Ethernet ports
- ✓ Support for 4G module (internal)
- ✓ WiFi Client (Uplink)
- ✓ WiFi Access Point (max 5 users)
- ✓ Serial over IP
- ✓ Edge Computing (Docker)
- ✓ 0°C to +60°C operating temperature

Performance	4i Edge X
Firewall Throughput	3 Gbit/s
VPN Throughput	250 Mbit/s
IPS Throughput	300 Mbit/s
Concurrent Sessions	300,000

Hardware	4i Edge X
CPU/SoC	Intel Celeron N3350 Dual-Core
CPU Speed	2.4 Ghz
Power 9-24 V	Power supply sold separately
Case / Form Factor	DIN Rail (Optional) / Wall Mount / Desktop
Dimensions	115 x 115 x 44 mm
Weight	850 g
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	0% ~ 90% relative humidity, non-condensing
Serial Port	RS232/422/485
Digital I/O	4In/4Out
Ethernet Ports	3 x GbE (Intel i211)
WiFi	802.11ac
3G / 4G	Optional
RAM	2 GB
Onboard Storage	16 GB
Additional Storage	MicroSD Slot
USB Ports	2 x USB3.0
Console Port	1 x Micro-USB Console Port



# Endian 4i Edge X

## 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, WiFi 802.11abgn/ac
- 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 can be scaled to fit into multiple environments, from very small projects to very large global deployments with thousands or even millions of things connected.

