Deliver the Promise of the IoT

Rely on the proven Echelon Embedded IoT Platform to easily connect industrial devices for safety, efficiency and intelligent user interaction.
Experience and Reliability: Why OEMs and Integrators Choose Echelon Embedded IoT Platform

Just look at our track record. We’ve been providing industrial IoT solutions for 30 years, and have over 150 million devices deployed around the world! Flexible solutions ideal for diverse applications and critical infrastructure. Proven solutions that scale from small projects to city-wide networks. Complete solutions with wired and wireless compatibility, and connectivity from edge devices all the way to the cloud.

We save you time, too, with powerful tools that speed development so you can bring new products to market faster. And our open platform software makes integration simple and deployments easy.

From communications chipsets to programmable edge servers with multi-protocol and multi-media capabilities, we have a complete set of tools for building and industrial automation.

- Edge-to-edge and edge-to-cloud connectivity protocol that enables distributed intelligence and peer-to-peer control for the most reliable and flexible deployments
- Open multi-protocol system-on-chip (SoC) solutions and development tools specifically designed for Industrial IoT edge devices that ensure fast development and reliable products
- Programmable edge servers, routers and network interfaces to easily and securely access data from edge devices
- Platform software and integration tools to design, provision and manage the entire IoT network

www.echelon.com
PARTNERSHIP SUCCESS STORIES

See how Echelon Embedded IoT Platform customers are harnessing our expertise to improve their products

Lencore, an innovative manufacturer of audio distribution systems, selected the Echelon Embedded IoT Platform for Spectra i.Net®, its advanced networked sound masking, paging and audio system. SmartServer™ and FT solutions ensure ultimate flexibility in installation, configuration, monitoring and reporting.

Gilbarco, a leading manufacturer of gasoline pumps, trusted us to collaborate on upgrading their integrated payment capabilities to ensure secure transactions when processing new chip-enabled credit cards.

Bombardier, the high-speed rail manufacturer, and US rail operator Amtrak selected FT and LON® controls and communication technology to monitor train systems and keep Acela Express cars level while navigating curves and traveling at speeds up to 150 mph (241 kph).

We’re here to help with reliable, extensible, scalable and interoperable end-to-end IoT solutions. Contact us to discuss product design or integration challenges for applications such as:

**Building Systems**
- HVAC and room controls
- Elevator/escalator controls
- Fire and security systems
- Lighting controls
- Energy management

**Industrial Systems**
- Process control
- Sound masking and paging
- Train and transportation systems
- Industrial equipment controls
- Refrigerated warehouses
- Environmental monitoring

**Smart Cities and Infrastructure**
- Outdoor lighting
- Smart grid
- Tunnel controls
- Horticulture and aquaculture systems
Echelon Embedded IoT Platform Key Product Portfolio

**EDGE DEVICE TIER**

**FT 6000 Series LON/IP Twisted Pair Smart Transceiver**
- SoC for developing devices compatible with all LON FT devices
- Streamlined low-cost RS-485 alternative (FT 6010)
- ISO/IEC 14908-1 (FT 6050 only), 14908-2 and 16484-5 compliant
- Multi-protocol with built-in LON (FT 6050 only), LON/IP, BACnet/IP and BACnet/MSTP protocol stacks

**Neuron 6050 LON/IP Processor**
- SoC for developing devices on any media
- ISO/IEC 14908-1 and 16484-5 compliant
- Multi-protocol with built-in LON/IP, BACnet/IP and BACnet/MSTP protocol stacks

**PL 3120 Power Line Smart Transceiver**
- Highly reliable power line carrier communications
- ISO/IEC 14908-1 and 14908-3 compliant
- World-wide operation, over 35M devices installed

**CPM 4200 LON/IP Wi-Fi Module**
- Marvell ARM Cortex M3 microcontroller and Wi-Fi transceiver
- ISO/IEC 14908-1 compliant
- Integrated LON/IP protocol stack

**Pyxos FT Network Chip**
- Low-cost embedded control networking chip for high-performance sensor networks
- High-speed 312kbps deterministic operation with less than 25ms response time

**EDGE SERVER/ROUTERS/NETWORK INTERFACES TIER**

**SmartServer IoT Edge Server**
- Extensible controller and gateway for IIoT applications
- ISO/IEC 14908-1 and 14908-4 compliant
- Interfaces for LON, BACnet, Modbus and M-Bus
- Multi-channel LON router and remote network interface

**U60 DIN and PCB Expansion Modules**
- USB to LON/FT or TP-1250 interfaces for SmartServer IoT and third-party edge servers
- ISO/IEC 14908-1 and 14908-2 (FT) compliant

**IOX Modules**
- I/O expansion module for SmartServer IoT
- Configurable digital and serial inputs and outputs
- BACnet/MSTP interface
- Optional high accuracy power metering

**U10 FT USB Network Interface**
- USB to LON/FT interfaces for use with desktop and laptop computers
- ISO/IEC 14908-1 and 14908-2 (FT) compliant

**U20 PL USB Network Interface**
- USB to LON/PL interfaces for use with desktop and laptop computers
- ISO/IEC 14908-1 and 14908-3 (PL) compliant

**EDGE DEVICE DEVELOPMENT TOOLS**

**IzoT FT 6000 EVK**
- Development tool for creating LON, LON/IP, BACnet/MSTP and BACnet/IP devices
- Supports Series 6000, 5000 and 3100 Smart Transceivers and Neuron Chips

**IzoT CPM 4200 Wi-Fi EVK**
- Development tool for creating wireless LON/IP devices
- Supports the CPM 4200 Wi-Fi Module

**IzoT SDK**
- Development tool for creating LON/IP devices using ARM or Intel processors
- Includes source code for the LON/IP protocol stack for porting to other processors

**ShortStack SDK**
- Development tool for creating LON and LON/IP devices using any processor combined with a Smart Transceiver or Neuron Chip
- Includes source code for a lightweight interface on the host processor to communicate with a Smart Transceiver or Neuron Chip

**Pyxos FT EVK**
- Development tool for creating Pyxos devices using the Pyxos FT Network Chip

**MANAGEMENT SOFTWARE TIER**

**IzoT Commissioning Tool**
- Provides an installation tool for LON and LON/IP devices from any manufacturer
- Simple user interface based on Microsoft Visio is easy to learn and use

**IzoT Net Server**
- Platform software for Windows applications
- Enables LON network design, installation, monitoring, and control applications

**Central Management System (CMS)**
- CMS for device management, data logging, and supervisory control using the SmartServer IoT
- Simplifies installation, improves operational efficiency, and reduces maintenance costs

**LonScanner Protocol Analyzer**
- Easy-to-use Windows tool to observe, analyze and diagnose the behavior of LON networks
- Interfaces with Echelon FT, PL, TP-1250 networks and with the SmartServer IoT RNI