Great Connectivity Powers IoT Vision.

Extend Your High-Res Imaging Solution With the IOT520 Gateway.

Connectivity is central to any Smart Edge implementation, and it’s essential for making IoT applications grow with your organization. The Lenovo IOT520 Gateway ties together scalable IoT ecosystems, linking high-resolution cameras and other devices to powerful edge computers and the cloud throughout your industrial infrastructure.

The IOT520 Gateway is a key component of your Smart Edge infrastructure. It facilitates the rapid processing, filtering, analysis, and storage of data near where it’s collected, so you get the automated, actionable insights you need to streamline operations, save money, and improve your competitiveness.

IOT520 Gateway

The IOT520 Gateway interconnects the components of your Smart Edge infrastructure, including proprietary machinery running legacy communications protocols.
PRODUCT HIGHLIGHTS AND BENEFITS

Optimal Networking: With a full range of I/O options and protocol support, the gateway gives you the flexibility to deliver secure wired and wireless connectivity to machinery, control systems, sensing devices, cameras, and other components of your Smart Edge implementation. It can translate proprietary process control protocols for transmission over standard networks such as Gigabit Ethernet LANs and 4G LTE wireless WANs to the cloud or a private data center.

Cost-Effective Computing: The IOT520 can be configured with an Intel® Atom® x5-E3930 dual-core or x7-E3950 quad-core CPU to handle light processing loads and data filtering, in addition to acting as a communications gateway.

Two-Way Security: The IOT520 comes with built-in Trusted Platform Module (TPM) chip security, reducing the risk of compromising sensitive data. It secures data coming in to your network from remote sensors as well as data being passed to the cloud or an edge computer for processing from your private IoT environment.

Smart Edge Topology Example

**IOT520 GATEWAY:** Securely connecting your business at the networking and smart computing edge.
A TOTAL VISION SOLUTION
By linking multiple cameras to the IOT520, you can deploy a complete visual IoT solution with integrated capture, connectivity, computing, and software. Lenovo’s systems approach lets your organization get started with a reliable Smart Edge and scale it up over time without complex integration efforts.

COMPACT, YET VERSATILE
The IOT520 embedded platform packs four types of communication ports in a small footprint, allowing for easy deployment right where it's needed. An embeddable camera can be housed directly within the IOT520, allowing the gateway to do double-duty as an IoT data collection endpoint in its own right.

RECOMMENDED USE CASES FOR THE IOT520 GATEWAY

SMART MANUFACTURING
For IoT communications and light processing

SMART RETAIL

SMART BUILDINGS AND CITIES

IOT520 GATEWAY

The Smart Edge Portfolio
The IOT520 Gateway is an intelligent, robust, embedded system that supports wide-ranging application development and easy service deployment. It delivers outstanding performance across transportation, facilities management, industrial automation, and Internet of Things (IoT) applications.

The Lenovo Advantage
- Best-in-class engineering
- Global availability and support
- Transparent supply chain

THINKCENTRE NANO IoT
For connecting IoT devices in manufacturing plants to the industrial Internet of Things (IIoT)

EPC300 EDGE COMPUTER
For local aggregate IoT data processing, data filtering, analytics, and communications
**PERFORMANCE**

**Processor(s)**
- Intel® Atom® x5-E3930
- Intel® Atom® x7-E3950

**Operating System**
Windows® 10 Pro

**Memory**
DDR3L 1600 1x SODIMM (Maximum 8GB)

**Storage**
1 x 2.5" SATA HDD/SSD
1 x uSD card slot

**POWER**
6-36 VDC, 40 W AC-DC power adapter (optional)

**CONNECTIVITY**

**Front Input / Output Ports**
- 2 x USB 3.0
- 2 x USB 2.0
- 2 x GbE
- 2 x RS-232/422/485, BIOS selectable
- 1 x DP 1.2
- 2 x SMA for antenna
- Audio, mic-in, line-out (optional)

**Rear Input / Output Ports**
1 x 4-pin DC-in connector

**Expansion Slots**
1 x full-size slot for WiFi/Bluetooth or LoRa (optional)
1 x full-size slot for 4G, Wi-Fi/Bluetooth, or LoRa (optional)
1 x USIM slot for 3G/4G

**DESIGN**

**Form Factor**
0.8L fanless, embedded

**Dimensions**
140 x 110 x 58 mm
5.5 x 4.3 x 2.3 in

**Weight**
0.95 Kg

**SECURITY**
TPM 2.0 (hardware)

**RECOMMENDED SERVICES**

Lenovo offers a comprehensive portfolio of services to support and protect your investments, so you can focus on the business at hand rather than worrying about IT.

**Premier Support**
Provides direct access to skilled and experienced Lenovo technicians for comprehensive hardware and software support. Gives you a consistent point of contact within Lenovo to ensure that your case resolution is professionally managed from start to finish.

**Accidental Damage Protection (ADP)**
Prevents the hassles of unexpected repair costs. Provides coverage for non-warranted damage incurred under normal operating conditions, such as minor spills, drops, or damage.

**Warranty Extension (1-year base, up to 3 years total)**
This fixed-term, fixed-cost service helps you accurately budget for PC expenses, protect your valuable investment, and lower your cost of ownership over time.

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