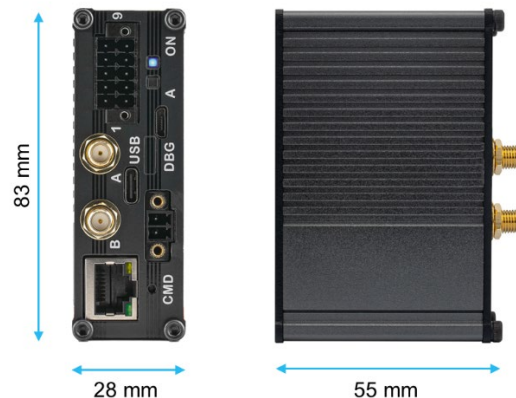# Industrial IoT Gateway
IOT-LINK
Datasheet v.1

IOT-LINK is a low cost, industrial IoT gateway, offering rich connectivity and versatile functionality in a miniature, rugged housing.

Built around the NXP i.MX93 System-on-Chip, IOT-LINK provides an array of features required in typical IoT control and monitoring applications.

Key Features:

- NXP i.MX9352 CPU, dual-core Cortex A-55, 1.7GHz
- Up to 2BG LPDDR4 RAM + Up to 64GB eMMC Flash
- LAN, WiFi 6, Worldwide LTE modem
- Up to 2 x RS485 / CAN-FD, 3 x DI/DO
- Bluetooth mesh, Thread and Zigbee Wireless N/W
- Secure boot, TPM and Hardware Watchdog
- Industrial temperature range of -40°C to +85°C
- Supports DIN-rail and wall mounting

83 mm

28 mm

55 mm

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CPU Core, Memory, Storage

Feature	Specification	Config
CPU	NXP i.MX9352, dual-core ARM Cortex-A55, 1.7GHz	+
RAM	1GB – 2GB, LPDDR4	D
Storage	16GB – 64GB eMMC flash, soldered on-board	N
Real-time Co-processor	ARM Cortex-M33, 250Mhz	+

Network

Feature	Specification	Config
Cellular Modem	4G/LTE CAT-1 bis cellular module, SIMCOM SIM7672 Worldwide LTE, UMTS/HSPA	JS7672G
	SIM card socket	+
WiFi and Bluetooth	802.11ax WiFi 6 and Bluetooth 5.4 BLE Implemented with NXP IW611 module 1x RP-SMA antenna connector	WB
Wireless Mesh	Bluetooth mesh, Thread, Zigbee Nordic Semiconductor nRF52840 / Silicon Labs MGM240	WMx
LAN	1x Gbit Ethernet, RJ45 connector	+

I/O

Feature	Specification	Config
RS485 CAN bus	Up-to 2x RS485 (2-wire) | CAN-FD ports Terminal-block connector	Fxx
Digital I/O	3x digital outputs / inputs 24V compliant with EN 61131-2, terminal-block connector	DIO
USB	1x USB2.0 host port, type-C connector	+
Debug	1x serial console via UART-to-USB bridge, micro-USB connector	+
	NXP SDP programming port. Micro-USB connector	+

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System

Feature	Specification	Config
RTC	Real time clock with on-board coin-cell battery	+
Watchdog	Hardware watchdog	+
Security	Secure boot, implemented with i.MX93 AHAB module	+
	TPM 2.0, Infineon SLB9673	+
Indicators	1x programmable dual-color LED 1x power LED	+
POE	Support for PoE (powered device)	POE

Electrical and Mechanical Specifications

Feature	Specification
Power	12V-24V DC (-20%/+20%) Reverse voltage protection
Power Consumption	1W - 5W, depending on system load and configuration
Dimensions	83mm x 28mm x 55mm
Housing material	Aluminium
Cooling	Passive cooling, fanless design
Weight	170 grams
Operating temperature	Commercial: 0° to 60° C Industrial: -40° to 80° C
Storage temperature	-40° to 85° C
Humidity	05% to 95% non-condensing

Compliance

Feature	Specification
Regulatory	FCC, CE, UKCA
EMC	EN 55032/5, EN 61000-6-2, EN61000-6-3
Safety	EN/UL/IEC 62368-1

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Mounting Options and Accessories

Option	Specification
	DIN rail clip Clip for mounting the gateway on a DIN rail
	Horizontal mounting bracket) Bracket for mounting the gateway on a surface
	Vertical mounting bracket Bracket for mounting the gateway on a surface
	Cellular antenna Cellular rubber duck antenna with SMA connector Can be used together with cellular antenna extender or assembled on the gateway SMA connector
	Cellular antenna extender2m antenna extender cable with magnetic mount Should be used together with cellular antenna
	WiFi / BT antenna 2.4GHz / 5GHz rubber duck antenna with RP-SMA connector

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PSU with terminal plug adapter
Wall mount PSU with terminal plug adapter
Input 100-240VAC 50/60Hz, 36W output 12VDC 3A
Includes US, EU, UK, AU AC blades

Block Diagram