

IOT-LINK Industrial IoT Gateway

Specifications



Ideal for industrial control and monitoring
Industrial build quality and reliability
Optimized for cost sensitive applications



Overview

Gateway Highlights

- NXP i.MX93 CPU, dual-core Cortex-A53
- LAN, WiFi, Worldwide LTE modem
- 2x RS485 / CAN-FD, 3x DI / DO
- Bluetooth mesh, Thread and Zigbee
- Secure boot, TPM and Hardware Watchdog
- Rugged, miniature housing - 83 x 28 x 55 mm
- Debian Linux and Yocto BSP - Open SW Stack
- 5 year warranty and 15 year availability

Optimized for Industrial Use

- Designed for reliability and 24/7 operation
- Wide temperature range of -40C to 80C
- Supports DIN-rail and wall mounting
- Customer O/S and application imaging service
- ODM rebranding with custom logo and labeling
- Also available as SBC and as System-on-Module

Debian Linux and Yocto BSP

- Fully Open Software Architecture
- Docker, MS Azure IoT and Node-RED
- Support for OTA updates with Mender
- Modbus RTU, Modbus TCP and MQTT
- Support for Orchestra OS and Manager
- Support for BalenaOS platform

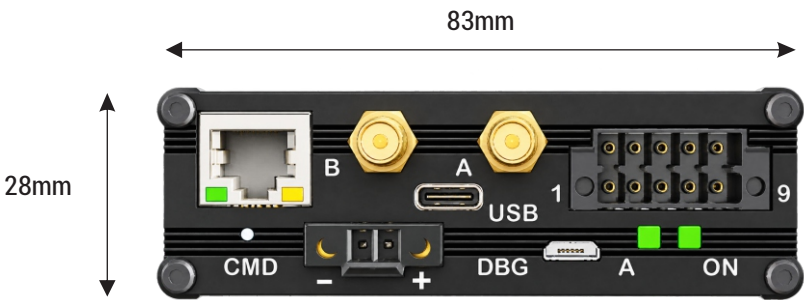


IOT-LINK: Specifications

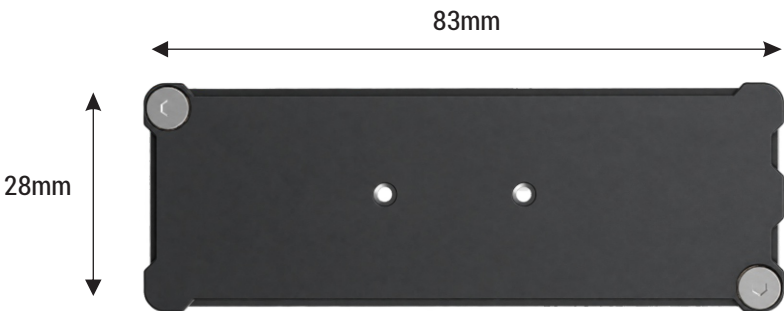
Specification	IOT-LINK	
CPU, Memory and Storage	CPU	NXP i.MX9352, dual-core ARM Cortex-A55, 1.7GHz
	RAM	1GB – 2GB, LPDDR4
	Storage	16GB – 64GB eMMC flash, soldered on-board
	Real-Time Co-processor	ARM Cortex-M33, 250Mhz
Network	Cellular Modem	4G/LTE CAT-1 bis cellular module, SIMCOM SIM7672 Worldwide LTE, UMTS/HSPA
		4G/LTE CAT-4 cellular module, Telit LE910 Worldwide LTE, UMTS/HSPA
		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
	Wireless Mesh	Bluetooth mesh, Thread, Zigbee Nordic Semiconductor nRF52840 / Silicon Labs MGM240
	LAN	1x Gbit Ethernet, RJ45 connector
I/O	RS485 CAN bus	Up-to 2x RS485 (2-wire) CAN-FD ports Terminal-block connector
	Digital I/O	3x digital outputs / inputs 24V compliant with EN 61131-2, terminal-block connector
	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
System	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)
Electrical Specifications	Power Supply	12V-24V DC (-20%/+20%) Reverse voltage protection
	Power Consumption	1W - 5W, depending on system load and configuration
Mechanical Specifications	Dimensions (H x W x D)	83 x 28 x 55 mm
	Housing material	Aluminum
	Cooling	Passive cooling, fanless design
	Weight	170 gram
Compliance	Regulatory	FCC, CE, UKCA
	EMC	EN 55032/5, EN 61000-6-2, EN 61000-6-3
	Safety	EN/UL/IEC 62368-1
Reliability and Environmental	MTTF	> 200,000 hours
	Warranty	5 years
	Operation Temperature	Commercial: 0° to 60° C Industrial: -40° to 80° C
	Storage Temperature	-40° to 85° C
	Relative Humidity	10% to 90% (non-condensing)

IOT-LINK: Mechanical Drawing

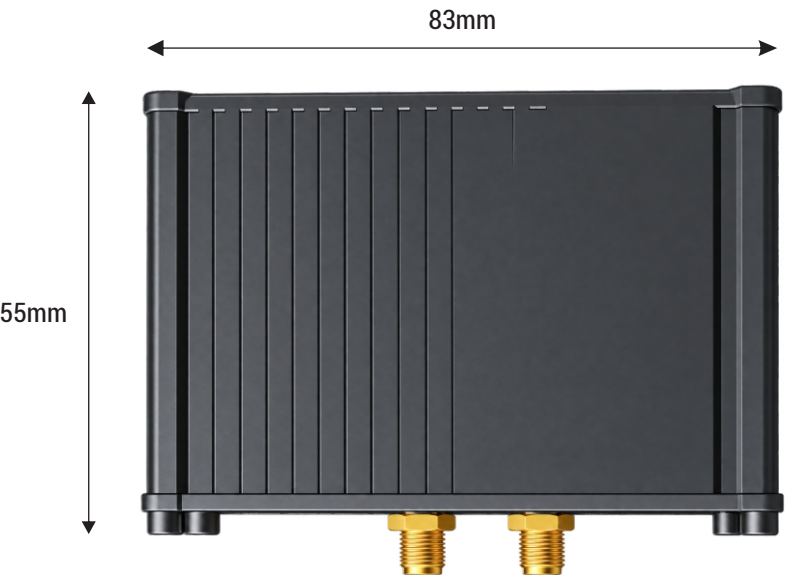
IOT-LINK Front



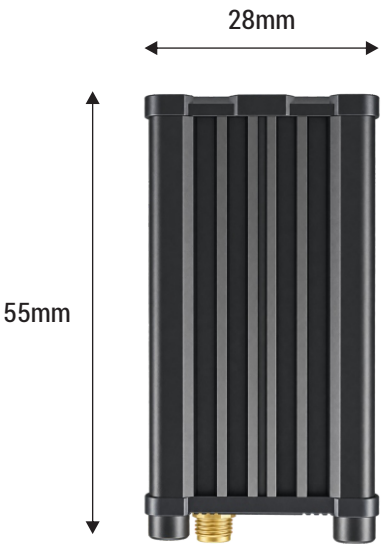
IOT-LINK Back



IOT-LINK Top



IOT-LINK Side



IOT-LINK: Accessories

Item	Accessories - Description
	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 extender 2m 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
	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

The following accessories are not included with the gateway and need to be ordered separately.