



IO-Link

Internet of Things starter kit



IO-Link masters
DataLine Coolant

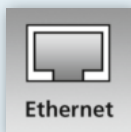


4-port IO-Link master with IoT core and MQTT interface

Start-up package for IoT applications for download

IO-Link parameter setting software "LR DEVICE" on USB stick

Including IO-Link temperature sensor, plug-in power supply with interchangeable adapter, Ethernet and sensor cable



Starter kit IO-Link master

With this starter kit you can immediately try out the IoT core interface of the IO-Link master on your desk. Connect the IO-Link temperature sensor to the IO-Link master and transmit the value of the sensor to different IoT software environments via TCP/IP JSON or MQTT. This is how you easily connect robust components from automation technology to the IT world.

Start-up package for IoT applications for download

In this IoT start-up package, you will find practical examples on how to simply read and process temperature values with an internet browser, Excel, Postman or NodeRed.

You can find the free "start-up package | IO-Link | IoT - JSON" on our website: ifm.com at Service / Downloads / IO-Link Setup Guide & Software.



Advantages and customer benefits

- **IoT core interface for the IT world**

The IoT core allows access to all data ranges of the IO-Link master and sensors. Established HTTP calls and JSON commands allow reading or writing of information. Connection to the IT world is made via the IoT core interface. In addition, ifm offers further IO-Link masters with different fieldbus interfaces for the automation level.

- **Display measured values in the internet browser or in Excel**

The quickest and simplest HTTP call can be made using an internet browser or Excel. The start-up package contains a small example of how you can display the temperature value in every internet browser. You can also record temperature values in Excel for subsequent analysis and optimisation of your installation.

You can find more practical examples with other tools in the IoT start-up package at ifm.com.

- **Sensor configuration with LR DEVICE**

The intuitive software finds all IO-Link masters in the network and creates an overview of the whole plant. In addition, all sensors connected are indicated with the respective parameters. This means that parameter setting of all sensors in the system is possible from one central point.

- **Easy sensor connection**

The sensors and actuators are connected via standard M12 connection cables without screening. Up to 4 IO-Link sensors can be connected and supplied with a total of up to 3.6 A. The cable can be up to 20 m long.

- **Secure digital data**

The sensor data is transferred digitally. Unlike analogue signals, contact resistance and EMC interference cannot corrupt the signals.

Products

Description	Order no.
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Starter kit (complete set)

Starter kit IO-Link master	ZZ1350
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Starter kit (individual components)

4-port IO-Link master with IoT interface	AL1350
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Plug-in power supply with interchangeable adapter, 230 V / 24 V	on request
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LR DEVICE (USB stick), IO-Link parameter setting software	QA0011
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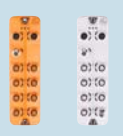
IO-Link temperature sensor	TV7105
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Ethernet cable M12 / RJ45, 0.5 m	E12490
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Sensor cable M12 / M12, 0.6 m	EVC041
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Type	Description	Order no.	
		Coolant	Food

IO-Link master DataLine

	IoT + PROFINET 4 ports	AL1300	AL1301
	IoT + EtherNet/IP 4 ports	AL1320	AL1321
	IoT + EtherCat 4 ports	AL1330	AL1331
	IoT + Modbus TCP 4 ports	AL1340	AL1341
	IoT + MQTT 4 ports	AL1350	AL1351
	IoT + PROFINET 8 ports	AL1302	AL1303
	IoT + EtherNet/IP 8 ports	AL1322	AL1323
	IoT + EtherCat 8 ports	AL1332	AL1333
	IoT + Modbus TCP 8 ports	AL1342	AL1343
	IoT + MQTT 8 ports	AL1352	AL1353

Type	Description	Order no.
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IO-Link master CabinetLine

	IoT + PROFINET 8 ports	AL1900
	IoT + EtherNet/IP 8 ports	AL1920
	IoT + EtherCat 8 ports	AL1930
	IoT + Modbus TCP 8 ports	AL1940
	IoT + MQTT 8 ports	AL1950