

## IIoT-capable network modules with multi-protocol support

# ADVANCED IO-LINK MASTER

The IO-Link communication standard is an essential building block for networked and smart production and for the industry of the future. This is probably not new to you – but the update in our IO-Link portfolio is: with the Advanced IO-Link masters, we offer you IIoT-capable network modules with which you can also drive devices with higher-power requirements, such as pneumatic valves.

### User-friendly (further) development

The IO-Link network modules of Balluff's Advanced class not only score points with their standard M12 power connector. They, also offer extended functions for OT-IT integration as well as improvements to the classic I/O functions. Additional software enhancements for the existing hardware will follow.

Choose the right Advanced Master from two series: Silver Line and Black Line. The Silver Line masters have an integrated display, which enables direct configuration on the device, as well as a robust die-cast zinc housing.

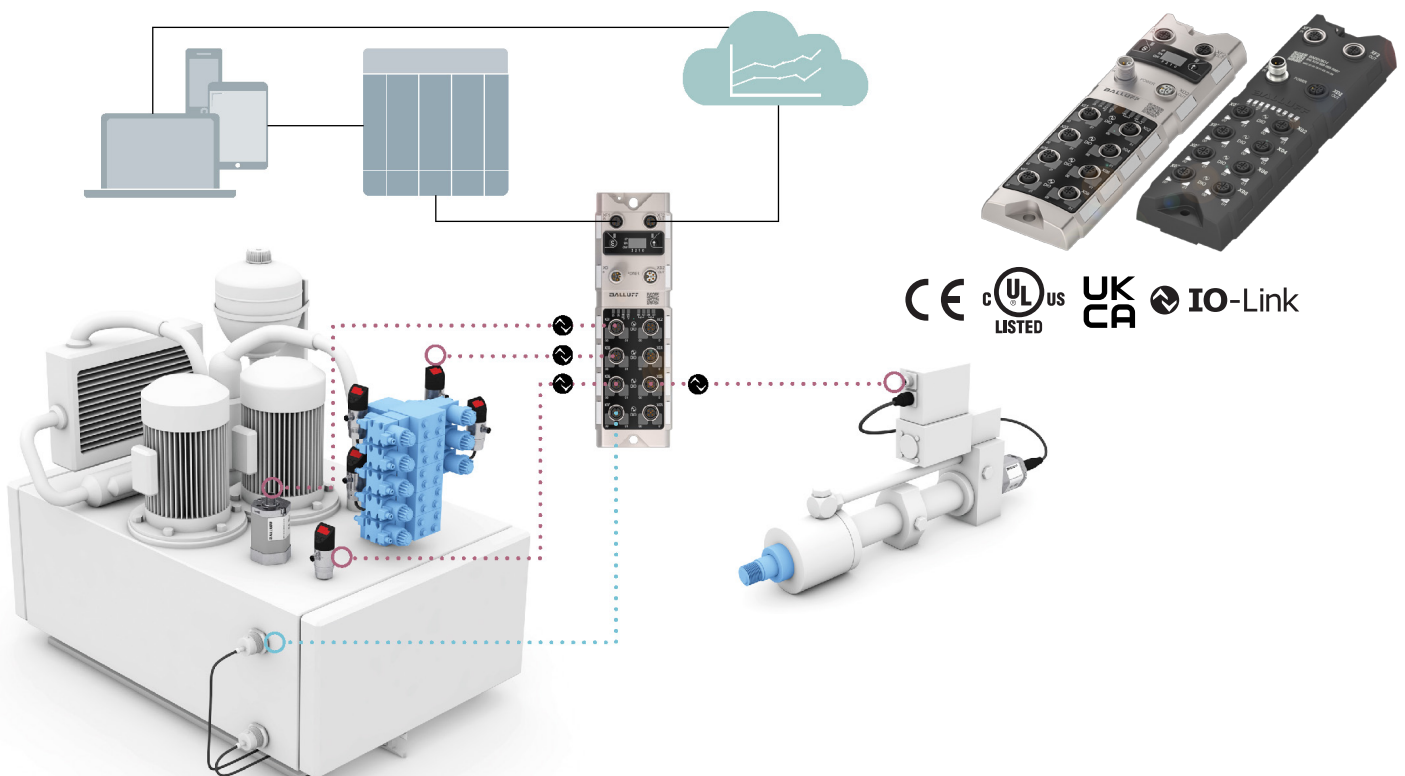
### High power for high currents

The Class A ports now have switchable outputs (pin 2) of up to 4 A with integrated current measurement and configurable current limiting. The Class B ports are electrically isolated in accordance with the standard requirements and also support currents of up to 4 A. This means that devices with higher current requirements, such as pneumatic valves or electric grippers, can also be connected to the master and reliably controlled. Incredibly efficient, cost-saving and quickly scalable: In addition to direct access to I/O data via the well-established MQTT data protocol,

the network modules offer further functions to minimize the amount of data and optimize the network load.

### Features

- IIoT-capable: REST API (JSON for IO-Link), MQTT
- Support for the most common fieldbus protocols
- IO-Link connections type A/B (potentially separate US and UA)
- More power: output current max. up to 4 A per port
- Power: M12 L-coded (16 A)
- Daisy-chaining



The Advanced Masters reliably control actuators with high current requirements and can transmit data directly to IT systems.

## ADVANCED IO-LINK MASTER



	BNI00K6	BNI00K7	BNI00KH	BNI00KJ
Interfaces fieldbus	Multi-protocol (Profinet, Ethernet IP, EtherCAT)			
Interfaces IIoT	REST API, JSON for IO-Link, MQTT (parsed)			
Display	Yes	Yes	No	No
Supply voltage	18...30 V DC			
Connection COM 1	M12 female, 4-pin, D-coded			
Connection COM 2	M12 female, 4-pin, D-coded			
Connection supply voltage IN	M12 male, 5-pin, L-coded			
Connection supply voltage OUT	M12 female, 5-pin, L-coded			
Connection slots	8 × M12 female, 5-pin, A-coded			
Digital inputs	16 × PNP, Type 3	12 × PNP, Type 3	16 × PNP, Type 3	12 × PNP, Type 3
Digital outputs	16 × PNP	12 × PNP	16 × PNP	12 × PNP
In-/outputs configurable	Yes			
Max. output current per port	4 A (Pin 2), 2 A (Pin 4)			
Total current sensor/actuator	16 A/16 A			
Housing material	Zinc, die-cast		Plastic	
Dimensions	68 × 32 × 224 mm		68 × 38.3 × 226.2 mm	
Ambient temperature	-5...+70 °C		-25...+70 °C	
Protection class	IP67			
Auxiliary interfaces	8 × IO-Link			
IO-Link version	1.1.3			
Port class	8 × Type A	4/4 × Type A/B	8 × Type A	4/4 × Type A/B

## CONNECTIVITY



	BCC0JFJ	BCC0L30	BCC09FU	
Connection 1	M12 male, straight, 4-pin, D-coded	M12 female, straight, 5-pin, L-coded	M12 female, straight, 5-pin, A-coded	
Connection 2	M12 male, straight, 4-pin, D-coded	M12 male, straight, 5-pin, L-coded	M12 male, straight, 5-pin, A-coded	
Cable	PUR shielded green, 5 m, drag chain compatible	PUR gray, 5 m, drag chain compatible	PUR black, 5 m, drag chain compatible	