

Add Flexibility in Designing Controls Architectures

IO-LINK MASTERS FOR SMART DEVICE INTEGRATION

Balluff is adding two new IO-Link masters to its line-up, designed to help you integrate smart IO-Link devices into your system: the BNI00E1 (EtherNet/IP) and the BNI00AZ (Profinet). These IO-Link masters offer 4x Type A (Class A) IO-Link ports and 4x Type B (Class B) IO-Link ports, each with up to 2A of output per channel, to meet a wider range of requirements.

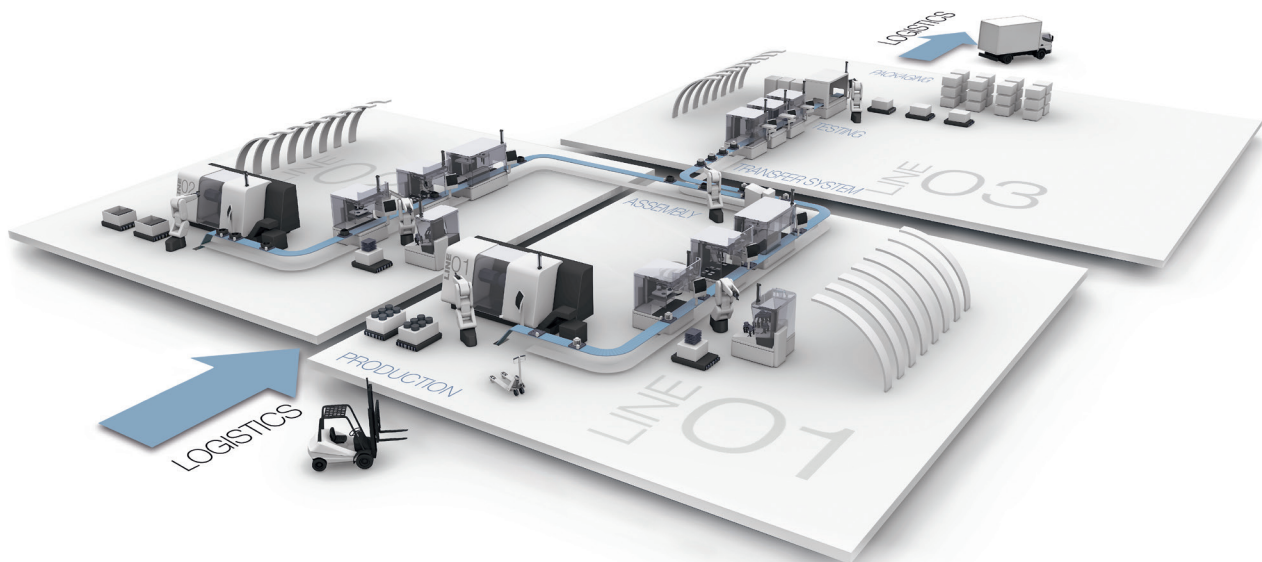
Type A ports allow for greater flexibility, where you can use pin 2 for an actuator/output and pin 4 for an IO-Link, input/output. The Type A ports are powered with device power. They can also be used to connect to configurable expandable I/O hubs like the BNI007Z.

The Type B ports offer isolated power for output, using pin 2 and pin 5, which you can use for IO-Link devices such as pneumatic or hydraulic valves, proportional valves, or robotic grippers. They can also be used to connect 3-pin IO-Link sensors or devices such as transducers, RFID over IO-Link, or SmartLights.

The enhanced webserver built in to these IO-Link masters allows you to configure and parameterize connected IO-Link devices on the fly. It also continually publishes JSON-formatted information, which you can use to remotely monitor devices. These IO-Link masters give you more flexibility in building resilient, feature-rich controls architectures.

Features

- 4x Type A (Class A) IO-Link ports
- 4x Type B (Class B) IO-Link ports
- Built-in enhanced webserver
- M12 T-coded power connectors
- Isolated output powers on Type B (Class B) ports





IO-LINK MASTERS

	BNI00AZ	BNI00E1
Interface	Profinet	EtherNet/IP
Operating voltage U_b	18...30.2 VDC	18...30.2 VDC
Connection (supply voltage IN)	M12x1-Male, 4-pole, T-coded	M12x1-Male, 4-pole, T-coded
Connection (supply voltage OUT)	M12x1-Female, 4-pole, T-coded	M12x1-Female, 4-pole, T-coded
Connection slots	8x M12x1-Female, 5-pole, A-coded	8x M12x1-Female, 5-pole, A-coded
Digital inputs	12x PNP, Type 3	12x PNP, Type 3
Digital outputs	8x PNP	8x PNP
Output current max.	2 A	2 A
Current sum I_A , actuator	9.0 A	9.0 A
Auxiliary interfaces	8x IO-Link, v1.1	8x IO-Link, v1.1
Port -class	Type A (4x) + Type B (4x)	Type A (4x) + Type B (4x)



CABLES

SENSOR CABLES
(3-POLE)

SENSOR CABLES
(4-POLE)

SENSOR CABLES
(5-POLE)

POWER CABLES

PROFINET

ETHERNET/IP

1 m	BCC05LE	BCC05LU	BCC08A4		BCC0JF9	BCC0CLY
2 m	BCC0C56	BCC05LY	BCC08A6	BCC0JZ0	BCC0JFC	BCC0CLZ
5 m	BCC0EUP	BCC05M1	BCC08A9	BCC0JZ1	BCC0JFJ	BCC0CM1
10 m	BCC0F60	BCC05M3	BCC08AC	BCC0JZ2	BCC0JEN	BCC0CM3
Cable	TPE yellow	TPE yellow	TPE yellow	PUR black	PUR Shielded green	TPE Shielded teal
Connection 1	M12x1-Female, straight, 5-pole, A-coded	M12x1-Female, straight, 5-pole, A-coded	M12x1-Female, straight, 5-pole, A-coded	M12x1-Female, straight, 4-pole, T-coded	M12x1-Male, Straight, 4-pole, D-coded	M12x1-Male, Straight, 4-pole, D-coded
Connection 2	M12x1-Male, straight, 3-pole, A-coded	M12x1-Male, straight, 4-pole, A-coded	M12x1-Male, straight, 5-pole, A-coded	M12x1-Male, straight, 4-pole, T-coded	M12x1-Male, Straight, 4-pole, D-coded	M12x1-Male, Straight, 4-pole, D-coded