

Turck Multiprotocol Ethernet I/O

BL20 In-Cabinet Modular I/O

- Up to 32 I/O modules
- All signal types, power isolation
- Screw or tension clamp terminals
- High density economy I/O modules
- Up to 512 I/O in a single node
- Up to 10 channels of RFID per node
- 0 to +55 °C operating temperature-standard, extended available



FEN20 In-Cabinet Block I/O

- 24 V DC digital inputs and outputs
- Pluggable screw termination
- Low profile package fits small enclosures (44.1 mm height)
- Ideal for pushbutton stations and end-of-arm tooling
- -40 to +70 °C operating temperature



BL67 Machine Mount Modular I/O

- Up to 32 I/O modules
- All signal types, power isolation
- M8, M12 and M23 I/O connectors
- Up to 512 I/O in a single node
- Up to 10 channels of RFID per node
- -40 to +70 °C operating temperature



BL Compact Machine Mount I/O Stations

- Epoxy filled IP67 and IP69K rated
- Mixed analog and digital signal types
- M12 or M8 I/O connectors
- M12 power tee (4 A limit)
- Small footprint MT package (71 x 102 mm)
- Dual I/O module LT package (71 x 168 mm)
- -40 to +70 °C operating temperature



TBEN Machine Mount I/O Stations

- Epoxy filled IP67 and IP69K rated
- 24 V DC digital inputs and outputs
- M12 I/O connectors
- Minifast power tee (9 A limit)
- M12 D coded Ethernet connectors
- Package size (60.5 x 230.5 mm)
- -40 to +70 °C operating temperature



PACTware Configuration Software

- Design, verify and document Turck Multiprotocol stations
- Generate RSLogix compatible tags
- Monitor inputs and force outputs
- Configure I/O parameters
- View diagnostic status



Advanced Webserver

- Integrated webserver for all Multiprotocol devices
- Direct configuration of Ethernet and I/O parameters
- Diagnostic information for Ethernet and I/O channels
- Mobile devices supported

High-Featured Multiprotocol Implementation

All Multiprotocol products support EtherNet/IP, PROFINET RT, and Modbus TCP protocols.

Integrated Ethernet switch allows star, line or ring topologies.

Easy IP address setup using Advanced Web Server, DHCP, or BOOTP.

LED indication of network status, I/O state, and diagnostic status.

EtherNet/IP™

DLR (Device Level Ring) for self-healing ring topologies.

QC (Quick Connect) for robot tool change applications.

Easy integration with CompactLogix and ControlLogix PLC's.

- Generic Ethernet Module
 - Easy mapping with PACTware generated tags
 - Single CIP connection for entire BL20 or BL67
- Generic Ethernet/IP CIP Bridge
 - Drag and drop node design using Turck catalog files
 - Automatic tag generation
 - Automatic parameter configuration for easy device replacement
- EDS configuration support for RSNetworkx.

AOI (add on instruction) for RFID, serial, and IO-Link communication.

Use with: Rockwell, Turck TX500, Omron, SyCon, Fanuc robot, ABB robot, Mitsubishi robot and more.

PROFINET®

PROFINET RT (Real Time) protocol.

MRP (Media Redundancy Protocol) for self-healing ring topologies*.

FSU (Fast Start Up) for robot tool change applications.

Topology detection using LLDP.

GSDML function configuration.

Easy integration with Siemens PLC's and GE PAC's.

Modbus TCP™

Bit register and function code support.

Easy integration with Schneider and Mitsubishi PLC's, PC controls, and Process Automation systems.

Package			Multiprotocol I/O Family		Signal Type and Channel Count																				
					Digital 24 Volt DC						Analog					Technology									
											In	Out		In											
IP20 - In-Cabinet	IP67 - Machine Mount	IP69K - Machine Mount	Part Number	Input	Output	Input or Output	Type (P = PNP, N=NPN)	M12 - 2 per port	M8 - 1 per port	0.5 A Output	2 A Output	Volt/mA/TC/RTD	0/-10 to 10 V or 0/4 to 20 i	0/-10 to 10 V or 0/4 to 20 i	0/-10 to 10 V	0/4 to 20 mA	Thermocouple	RTD	HF or UHF RFID	RS232	RS422/RS485	SSI	Counter/Encoder	IO-Link	
•			FEN20-16DXP			16	P			•															
•			FEN20-4DIP-4DXP	4	4	4	P			•															
		•	TBEN-Lx-16DIP (x = 5 or 4)*	16			P	•																	
		•	TBEN-Lx-8DIP-8DOP (x = 5 or 4)*	8	8		P	•		•															
		•	TBEN-Lx-16DOP (x = 5 or 4)*		16		P	•		•															
		•	TBEN-Lx-16DXP (x = 5 or 4)*			16	P	•		•															
		•	TBEN-S1-8DIP	8			P		•																
		•	TBEN-S1-4DIP-4DOP	4	4		P		•		•														
		•	TBEN-S1-8DOP		8		P		•		•														
		•	TBEN-S1-8DXP			8	P		•	•															
		•	BLCEN-4M12MT-8DO-0.5A-P		8		P	•		•															
		•	BLCEN-4M12MT-8XSG-P			8	P	•		•															
		•	BLCEN-8M12LT-8XSG-P-8XSG-P			16	P	•		•															
		•	BLCEN-8M12LT-8DI-N-8DI-N	16			N	•																	
		•	BLCEN-8M12LT-8DI-N-8DO-0.5A-N	8	8		N	•		•															
•			BLCEN-16M8LT-8DI-P-8DI-P	16			P		•																
•			BLCEN-16M8LT-8XSG-P-8XSG-P			16	P		•	•															
		•	TBEN-S2-4AI									4													
		•	TBEN-S2-4AO											4											
		•	BLCEN-4M12MT-2AI2AO-VI									2	2	2	2										
		•	BLCEN-4M12MT-4AI-VI									4	4												
		•	BLCEN-4M12MT-4AI4AO-VI					•				4	4	4	4										
		•	BLCEN-6M12LT-4AI-VI-2AI-PT									4	4					2							
		•	BLCEN-8M12LT-4AI-VI-8XSG-P		8	P	•		•			4	4												
		•	BLCEN-8M12LT-4AI-VI-4AI-VI									8	8												
		•	BLCEN-8M12LT-4AI4AO-VI-4AI4AO-VI					•				8	8	8	8										
		•	BLCEN-8M12LT-4AI4AO-VI-8XSG-P		8	P	•		•			4	4	4	4										
		•	BLCEN-6M12LT-4AI-VI-2AO-I									4	4			2									
		•	BLCEN-6M12LT-2AO-I-8XSG-P		8	P	•		•						2										
		•	BLCEN-4M12LT-2AO-I-2AO-I												4										
		•	BLCEN-2M12MT-2AI-PT															2							
		•	BLCEN-4M12LT-2AI-PT-2AI-PT															4							
		•	BLCEN-2M12MT-2AI-TC															2							
		•	BLCEN-4M12MT-4AI-TC															4							
		•	BLCEN-8M12LT-4AI-TC-4AI-TC															8							

Package			Multiprotocol I/O Family		Signal Type and Channel Count																				
					Digital 24 Volt DC						Analog				Technology										
											In	Out		In											
IP20 - In-Cabinet	IP67 - Machine Mount	IP69K - Machine Mount	Part Number	Input	Output	Input or Output	Type (P = PNP, N=NPN)	M12 - 2 per port	M8 - 1 per port	0.5 A Output	2 A Output	Volt/mA/TC/RTD	0/-10 to 10 V or 0/4 to 20 i	0/-10 to 10 V or 0/4 to 20 i	0/-10 to 10 V	0/4 to 20 mA	Thermocouple	RTD	HF or UHF RFID	RS232	RS422/RS485	SSI	Counter/Encoder	IO-Link	
		•	BLCEN-2M12MT-2RFID-S																	2					
		•	BLCEN-4M12LT-2RFID-S-2RFID-S																	4					
		•	BLCEN-6M12LT-2RFID-S-8XSG-P			8	P	•		•										2					
		•	BLCEN-3M12LT-1RS232-2RFID-S																	2	1				
		•	BLCEN-1M12MT-1RS232																		1				
		•	BLCEN-1M12MT-1RS485-422																			1			
		•	BLCEN-1M12MT-1SSI																				1		
		•	BLCEN-1M12MT-1CNT-ENC																					1	
		•	BLCEN-5M12LT-1CNT-ENC-8DI-PD		8		P	•																1	
		•	TBEN-S2-4IOL			4	P			•															4
		•	BLCEN-4M12MT-4IOL			4	P			•															4
		•	BLCEN-8M12LT-4IOL-4IOL			8	P			•															8
		•	BLCEN-6M12LT-4IOL-2RFID-S			4	P			•										2					4
		•	BLCEN-8M12LT-4IOL-8XSG-P			12	P	O		•															4
		•	BLCEN-8M12LT-4IOL-4AI-VI			4	P			•			4												4
		•	BLCEN-8M12LT-4IOL-4AI4AO-VI			4	P			•			4	4											4
	•		BL67-GW-EN modular IO family	Up to 32 modules per node, various signal types, M8, M12, M23 connectorized																					
	•		BL20-E-GW-EN modular IO family	Up to 32 modules per node, various signal types, screw or tension clamp termination																					

*TBEN-L5 provide 5-pin Minifast power connectors. TBEN-L4 provide 4-pin Minifast power connectors. BLCEN stations provide M12 power connectors.