

Drivers and Protocols

Belden Horizon Data Operations currently has prebuilt drivers for 300+ of the most popular data sources used by OT and manufacturers across their plants. If we don't have what you're looking for, we can rapidly develop it.

ABB AC500	Ethernet UDP Raw	LS XGT Series (XGK, XGI, XGR) Serial	Samsung SPC 10
ABB TotalFlow FCU	Euromap63	Mazak CNC	Schneider M Series Ethernet
Advantech ADAM Series Ethernet	Fanuc Focas 2 Ethernet	Mitsubishi CNC	Schneider MODBUS RTU
Allen-Bradley Controllogix	Fanuc Focas HSSB	Mitsubishi FX2N	Schneider MODBUS TCP
Allen-Bradley Controllogix Unsolicited	Fatek FB	Mitsubishi FX2N-10Z0G Serial	Schneider Zelio Serial
Allen-Bradley DFI Ethernet	File Mount / Local Raw Files (CSV / Logs)	Mitsubishi FX3G Serial	Sick Flexi Ethernet
Allen-Bradley DFI Serial	Fuji NB	Mitsubishi FX3U Ethernet	Sick Flexi Serial
Allen-Bradley DH + Allen-Bradley DH 485	Fuji SPH2000	Mitsubishi FX3U Serial	Sick Flexi Unsolicited Ethernet
Allen-Bradley Micro800 Ethernet	GE Fanuc 90-30 Ethernet	Mitsubishi FX5U Ethernet	Siemens Logo Ethernet
Allen-Bradley Micro800 Serial	GE Fanuc 90-30 Serial	Mitsubishi FX5U Serial	Siemens S5 Ethernet
Allen-Bradley PLC5 Ethernet	GE SNP	Mitsubishi iQ-R Ethernet	Siemens S7 (All series) Ethernet
Allen-Bradley PLC5 Serial	GE SNPX	Mitsubishi L Ethernet	Siemens S7 (All series) Serial-Ethernet Extensions Modules
Allen-Bradley SLC500 Ethernet (Custom Module)	GE VersaMax Ethernet	Mitsubishi Q Ethernet	Siemens S7 300-400 ISO Ethernet
B&R Modbus Advance	GE VersaMax Serial-CMM	Mitsubishi QxUDH Serial	Siemens S7 MPI – PC Adapter – Serial
Bacnet IP	Hart-IP Gateway	Modbus 32 Bit	Siemens S7-200 Ethernet
Bacnet MSTP	Heidenhain TNC 640 & iTNC 530	Modbus Advance	Siemens S7-200 Serial
Barcode HID	HID Raw	Modbus Enron	Siemens Simatic 505 Ethernet
Beckhoff TwinCAT 3 ADS	Hitachi EHV Ethernet	Modbus Plus	Siemens Simatic 505 Serial
Beckhoff TwinCAT PLC	Hitachi EHV Serial	Modbus RTU	Siemens Simatic 565 Ethernet
Beckhoff Unsolicited	Hollysys Ethernet	Modbus TCP	Siemens Simatic 565 Serial
Bosch Rexroth IndraControl Ethernet	Hollysys Serial	Modbus UDP	Siemens Sinumerik CNC Ethernet
Can Raw	Honeywell UDC Ethernet	Modbus Unsolicited	Siemens Sinumerik CNC Serial
Canbus CanOpen Slave	Honeywell UDC Serial	MOXA ioLogik Modbus Advance	Siemens TCP Unsolicited
Canbus J1939	HPE CAN Raw (need HPE EL300 with CAN module to work)	MTConnect General	SIXNET EtherTRAK Ethernet
Codesys V2 Ethernet	HPE GPIO (need HPE EL300 for driver to work)	ODVA Ethernet/IP Raw	Toshiba T Series Serial
Codesys V2/V3 Unsolicited	IDEC Micro / MicroSmart Serial	Okuma CNC	Turck BEEP (Modbus Map)
Codesys V3 Ethernet	IDEC MicroSmart Ethernet	Omron FINS (CJ/CS/CP) Ethernet	VIPA 200/300 Ethernet
Cutler-Hammer/Eaton ELC Ethernet	IEC 60870-5-101 Slave	Omron FINS (CJ/CS/CP) Serial	VIPA 200/300 MPI – Serial
Cutler-Hammer/Eaton ELC Serial	Jtekt Toyopuc PC3/PC2/PC10 Ethernet	Omron HostLink	Wago Ethernet
Danfoss ECL Apex20 Ethernet	Jtekt Toyopuc Pck06 Serial	Omron NJ / NX Ethernet	Wago Ethernet Unsolicited
Danfoss ECL Apex20 Serial	Keyence KV Ethernet	OPCUA Client	Yaskawa DX / FX Robotic Controller Ethernet
Danfoss Superheat controllers	Keyence KV Serial	Opto22 Ethernet	Yaskawa DX / FX Robotic Controller Serial
Delta AS300 Ethernet	Koyo / AutomationDirect Click Ethernet	Opto22 SNAP CONT	Yaskawa Memobus Ethernet
Delta DVP Ethernet	Koyo / AutomationDirect Click Serial	Opto22 SNAP MMIO	Yaskawa Memobus Serial
Delta DVP Serial	Koyo / AutomationDirect DirectLogic Ethernet	Panasonic FP Ethernet	Yaskawa MP Series Ethernet
DIGI Control PLC – Ethernet	Koyo / AutomationDirect DoMore Ethernet	Panasonic FP2 Ethernet	Yaskawa MP Series Serial
DIGI Control PLC – Serial	Koyo / AutomationDirect DoMore Serial	Panasonic FP2 Serial	Yaskawa MP2300Siec Ethernet
DNP 3	Lenze Drive Serial	Panasonic KWX Serial	Yaskawa MP2300Siec Serial
Echelon (Via LonServer)	LS Glofa Ethernet	Parker acer9000 ethernet	Yokogawa DX Ethernet
EMERSON ControlWave MICRO – Ethernet	LS Glofa Serial (Cnet)	Parker Compax 3	Yokogawa DX Serial
Emerson PLC EC20 Serial	LS MASTER-K Serial (Cnet)	RS Automation X8 Series Ethernet	Yokogawa FA-M3 Ethernet
EMERSON ROC800 – Ethernet	LS XGB Series (XGM, XBC, XEC) Ethernet	RS232 RAW	Yokogawa FA-M3 Serial
Ethernet HTTP Request-Response Raw	LS XGB Series (XGM, XBC, XEC) Serial	RS485 RAW	
Ethernet TCP Raw	LS XGT Series (XGK, XGI, XGR) Ethernet	Saia Ethernet	

Cloud and Enterprise Integrations

- Publish data (outbound topics) from the edge directly to a cloud service provider or a database.
- Subscribe to data (inbound topics) from a cloud service provider or a database.

Cloud Service Providers

Belden Horizon Data Operations lets you add prebuilt connectors to enable integration with the following cloud service providers:

AMQP SSL

AMQP TCP

Azure Event Hubs

Edge Access

Google Cloud Pub/Sub

Kafka SSL

Kafka TCP

MQTT - Amazon AWS IoT Core over SSL

MQTT - Azure IoT Hub using Device Certificates

MQTT - Azure IoT Hub using SAS Key

MQTT - Generic

MQTT - Generic over SSL

MQTT - Google IoT Core over SSL

MQTT - IBM Watson over SSL

MQTT - System Protobuf SSL

MQTT - System Protobuf TCP

Mindsphere PSK

Splunk

Databases

You can integrate Belden Horizon Data Operations with databases. You can enable database apps in the Applications Marketplace. Database connections allow table names in mixed case. The following databases are currently supported:

Loopback Connector

DB - InfluxDB SSL

DB - InfluxDB TCP

DB - Microsoft SQL Server

DB - Microsoft Server SSL

DB - MongoDB

DB - MySQL

DB - MySQL SSL

DB - PostgreSQL

DB - PostgreSQL SSL