

Bill of Materials

| Qty | Catalog # | Description | | | |
|---|-------------------------------|--|--|--|--|
| System: Controller Hardware | | | | | |
| 1 | 2080-LC50-48QWB | Micro 850 Controller | | | |
| 1 | 2080-DNET20 | Devicenet Plug in Module | | | |
| HMI Hardware | | | | | |
| 1 | 2711C T4T | PanelView C400, touch terminal | | | |
| 1 | 2080-PS120-240VAC | Power Supply Module | | | |
| Distributed I/O Hardware - CompactBlock | | | | | |
| 2 | 1790D-T16BV0 | DeviceNet LDX I/O, 24VDC, 16 Universal In Base Block, Screw-clamp | | | |
| 1 | 1790D-8BV8BX | DeviceNet LDX I/O, 24VDC, 8 Universal In/8 Source Out Expansion Block, D-Shell | | | |
| 2 | 1799-DNETCON | 5 Pin Connector | | | |
| 2 | 1485R-P1M5-C | Cordset | | | |
| 2 | 1485P-P1N5-MN5V | Trunk Tap | | | |
| Drive Hardware | | | | | |
| 3 | 25A-A4P8N104 | Powerflex 523 Drive, 1HP, Single Phase 240V | | | |
| 3 | 25-COMM-D | PowerFlex 520 Series DeviceNet Adapter | | | |
| Note | · PowerFlex drives come in me | any variations - before ordering you will need to identify voltage rating | | | |

Note: PowerFlex drives come in many variations - before ordering, you will need to identify voltage rating, horsepower, and enclosure type. Please refer to the PowerFlex Selection Guide for additional details on selecting the right drive for you application.

| Distributed Devicenet Devices | | | | |
|-------------------------------|------------------------|--|--|--|
| 1 | 1935-EEPP | E1 Plus Electronic Overload Relay | | |
| 1 | 193-EDN | DeviceNet Side Mount Module For E1 Plus | | |
| Power Supply | | | | |
| 1 | 1606-XLSDNET4 | Class 2, DeviceNet Power Supply 24V, 4Amps | | |
| Signaling Device | | | | |
| 1 | 855TP-DM1B24Y4Y5Y3 | DeviceNet Control Tower Lights | | |
| KwikLink Media Configuration | | | | |
| 1 | 1485P-K1TLR4 | Power Tap | | |
| 9 | 1485P-K1TG4 | Trunk-line Connector IDC | | |
| 2 | 1485P-K1DL4 | Drop -line Connector IDC | | |
| 1 | 1485P-K1TR4 | Terminating Resistor IDC | | |
| 1 | 1485P-KCrimp | Crimping Pliers | | |
| 5 | 1485P-K1 <i>G</i> 4-Y5 | 5-pin Open Style Connector IDC | | |
| Media | | | | |
| 1 | 1485 <i>C</i> -P1WX00 | IP20 Flat Media Cable Spool,100 ,300,600meters | | |
| Configuration Tool Required | | | | |
| 1 | 9328-50001-EN-C | Connected Components Workbench software | | |

DeviceNet KwikLink Lite Media Guidelines

| Data Rate | 125k baud | 250k baud | 500k baud | |
|--------------------------|-----------|-----------|-----------|--|
| Trunk Cable length (Max) | 420m | 200m | 75m | |
| DeviceNet Nodes (Max) | 20 | | | |
| Drop Cable length (Max) | 6.1m | | | |
| Cumulative Drop | 159m | 78m | 39m | |

KwikLink Lite Cable Color Code

| Red | 24 VDC | | |
|-------|--------|--|--|
| White | CAN_H | | |
| Blue | CAN_L | | |
| Black | OV DC | | |
| | | | |

About this Configuration

This Micro 850 Controller based low cost system demonstrates the power and scalability of the Component class on an Devicenet based network. This system utilizes standard Devicenet technology to allow you to easily mix and match, I/O control & drive control, on a single Devicenet network.

A key advantage of this architecture is the ability to use Connected Components Workbench a common integrated environment for programming, configuration, commissioning, and motion tools for the PowerFlex 523, Panelview Component, and Micro 800 Controller family of products.

About the Products

Micro 850 Controllers

- The Micro850 controller is equipped with the same form factor, plug-in support, instruction/data size and motion capabilities as the 24-pt and 48-pt Micro830 controllers
- Support up to four Micro850 Expansion I/O modules, Up to a maximum of 132 I/O points (with 48-pt model)
- Designed for larger standalone machine applications that require more I/O or higher performance analog I/O than supported by Micro830.
- · Structured Text, Ladder Diagram and Function Block editors that support
- Symbolic addressing
- · Connected Components Workbench software is used for PLC programming, HMI and Drives configuration

CompactBlock LDX I/O

- · CompactBlock LDX I/O is ideally suited for light industrial and commercial applications.
- Compact design of hardware lets it fit into shallow enclosures and confined areas.
- · DeviceNet and PROFIBUS DP are supported.
- Up to 64 points can be addressed on a single network node.
- I/O types include AC/DC, analog, RTD, and thermocouple.
- · Choice of D-shell connector for convenient disconnection or fixed screw terminals for I/O connections

PanelView Component

- · A full line of displays ranging from 2" to 10",
- Communicate to MicroLogix, Micro800 and SLC controllers via serial (RS232 or RS422/RS485) networks on all terminals, and Ethernet on the C400, C600 and C1000 displays.
- Features include unicode language switching, alarm messages and history, and basic recipe capability
- PanelView Component software (DesignStation) is an offline programming software offering better user experience with significant DesignTime performance improvement

PowerFlex Drives

- · Serves applications ranging from 4 kW (.5 hp) to 22 kW (15 hp).
- · Common set of networks, operator interface and programming for all PowerFlex drives
- · Communication Options ControlNet, Devicenet, DH Plus, RIO, 3rd party networks
- · Hundreds of pieces of status and diagnostic information are shared with Micro 850 controllers directly.

KwikLink Lite Flat Media

- KwikLink Lite is the new, ODVA-approved solution for wiring DeviceNet networks. This new physical media makes
 DeviceNet wiring and cable installation both quick and easy, and extends the network into light-duty, IP20-rated applications.
- Drop-lines for connecting nodes can be easily added using the unique KwikLink Lite two-piece connectors.
- The cable system supports the intermixing of DeviceNet cable types (thin-round with flat).
- · All of the KwikLink Lite Connectors provide Insulation Displacement Technology with reduced assembly time.

ControlTower™ Stack Lights

- They are available in three sizes: 30mm, 50mm, and 70mm.
- UL Type 4/4X/13, IP65 ratings.
- · Wide variety of light and/or sound functions, colors, voltages, and mounting options are available to meet most applications.
- · Allen-Bradley stack lights can be supplied as separate light/sound modules or pre-assembled for greater flexibility.

For More Information and Help

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