

# CLICK PLUS Option Slot Module Specifications

## C2-14TTL

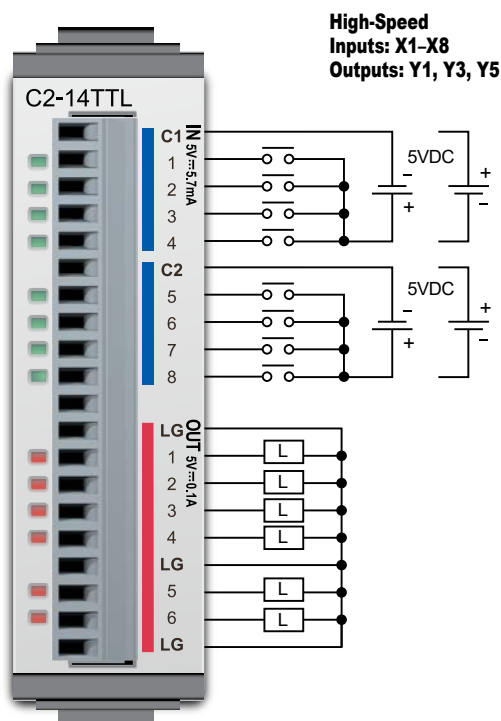
\$-6gpj:

### 8 TTL Input/6 Sourcing TTL Output

#### Option Slot I/O Module

CLICK PLUS discrete combo module,  
Input: 8-point, 4.5-5.5 VDC, sinking/sourcing/TTL,  
Output: 6-point, 4.5-5.5 VDC, sourcing/TTL, 0.1A/point.  
Removable terminal block included.

#### Wiring Diagram



#### ZIPLink Pre-Wired PLC Connection Cables and Modules

**ZL-RTB20** 20-pin  
feed-through  
connector module



20-pin connector cable  
**ZL-C0-CBL20** (0.5 m length)  
**ZL-C0-CBL20-1** (1.0 m length)  
**ZL-C0-CBL20-2** (2.0 m length)



### I/O Specifications - Inputs

|                                |                                  |
|--------------------------------|----------------------------------|
| <b>Inputs per Module</b>       | 8 (Sink/Source)                  |
| <b>Operating Voltage Range</b> | 5VDC                             |
| <b>Input Voltage Range</b>     | 4.5-5.5 VDC                      |
| <b>Input Current</b>           | Typ 5.7 mA @ 5VDC                |
| <b>Maximum Input Current</b>   | 7.4 mA @ 5.5 VDC                 |
| <b>Input Impedance</b>         | 360Ω @ 5VDC                      |
| <b>Input Frequency (Max)</b>   | X1-X8: 100 kHz (3m cable)        |
| <b>ON Voltage Level</b>        | > 4.0 VDC                        |
| <b>OFF Voltage Level</b>       | < 2.0 VDC                        |
| <b>Minimum ON Current</b>      | 4.0 mA                           |
| <b>Maximum OFF Current</b>     | 0.5 mA                           |
| <b>OFF to ON Response</b>      | Typ 3μs, Max 5μs                 |
| <b>ON to OFF Response</b>      | Typ 1μs, Max 5μs                 |
| <b>Status Indicators</b>       | Logic Side (8 points, green LED) |
| <b>Commons</b>                 | 2 (4 points/common) Isolated     |

### I/O Specifications - Outputs

|                                    |                                       |
|------------------------------------|---------------------------------------|
| <b>Outputs per Module</b>          | 6 (Source)                            |
| <b>Operating Voltage Range</b>     | 5VDC                                  |
| <b>Output Voltage Range</b>        | 4.5-5.5 VDC                           |
| <b>Maximum Output Current</b>      | 0.1A/point, 0.6 A/common              |
| <b>Minimum Output Current</b>      | 0.2 mA                                |
| <b>Maximum Leakage Current</b>     | 0.1 mA @ 5.5 VDC                      |
| <b>On Voltage Drop</b>             | 0.1 VDC @ 0.1 A                       |
| <b>Maximum Inrush Current</b>      | 150mA for 10ms                        |
| <b>Maximum Switching Frequency</b> | 100kHz (3m cable)                     |
| <b>OFF to ON Response</b>          | <5μs (Duty 40-60%, Load current 20mA) |
| <b>ON to OFF Response</b>          | <5μs (Duty 40-60%, Load current 20mA) |
| <b>Status Indicators</b>           | Logic Side (6 points, red LED)        |
| <b>Commons</b>                     | 1 (6 points/common)                   |

### General Specifications

|                                            |                           |
|--------------------------------------------|---------------------------|
| <b>Current Consumption at 24VDC</b>        | 220mA max (All Points On) |
| <b>Terminal Block Replacement Part No.</b> | <a href="#">C0-16TB</a>   |
| <b>Drawing Link</b>                        | <a href="#">PDF</a>       |
| <b>Weight</b>                              | 48g                       |

### Maximum Number of High-Speed Counters

|                         |   |
|-------------------------|---|
| <b>Up</b>               | 6 |
| <b>Down</b>             | 6 |
| <b>Up/Down</b>          | 3 |
| <b>Pulse/Direction</b>  | 4 |
| <b>Quadrature A-B</b>   | 4 |
| <b>Quadrature A-B+Z</b> | 2 |

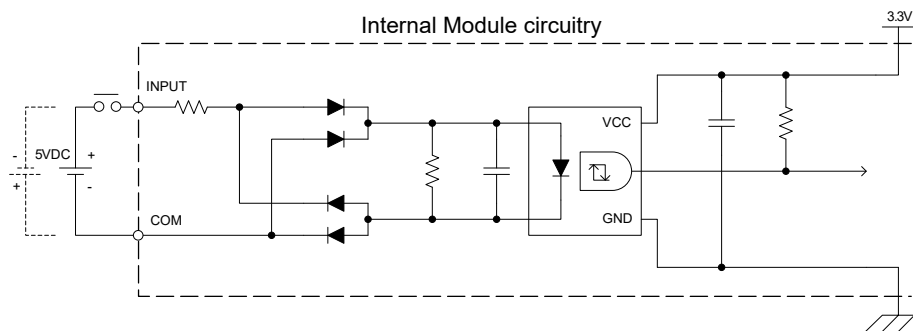
### Maximum Number of High-Speed Outputs

|                               |   |
|-------------------------------|---|
| <b>Pulse Train</b>            | 3 |
| <b>Pulse Width Modulation</b> | 3 |

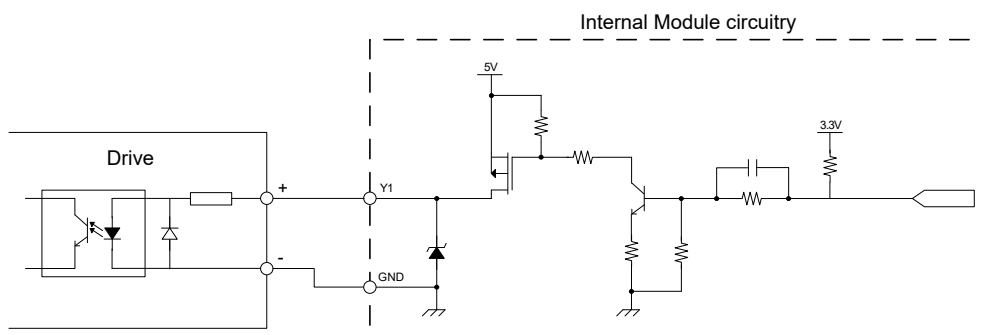
# CLICK PLUS Option Slot Module Specifications

## C2-14TTL (cont'd)

### Equivalent Input Circuit



### Equivalent Output Circuit

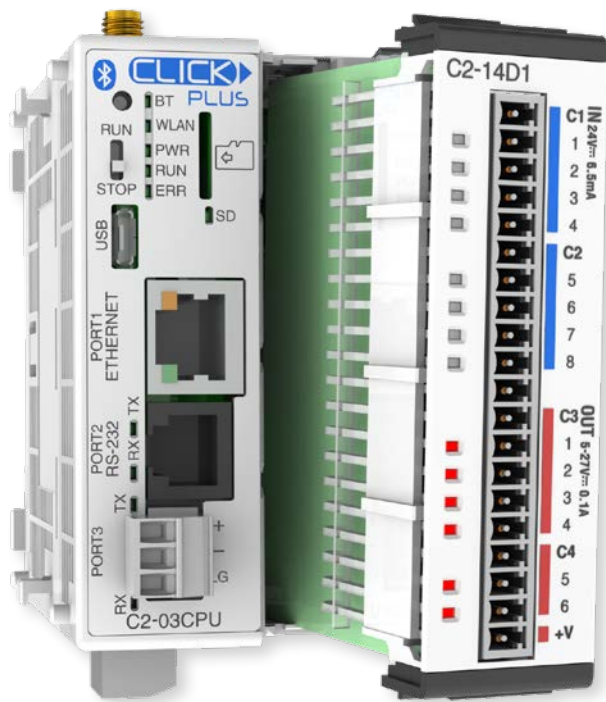


# CLICK PLUS Option Slot Module Specifications

## General Specifications For All CLICK PLUS Option Slot Modules

These general specifications apply to all CLICK PLUS Option Slot Modules. Please refer to the appropriate I/O temperature derating charts under the Option Slot module and Stackable I/O module specifications to determine the best operating conditions based on the ambient temperature of your particular application.

| Option Slot Module General Specifications |                                                                                                                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operating Temperature</b>              | 32°F to 131°F [0°C to 55°C]                                                                                                                                                                                           |
| <b>Storage Temperature</b>                | -4°F to 158°F [-20°C to 70°C]<br>IEC 60068-2-1 (Test Ab, Cold)<br>IEC 60068-2-2 (Test Bb, Dry Heat)<br>IEC 60068-2-14 (Test Na, Thermal Shock)                                                                        |
| <b>Ambient Humidity</b>                   | 30% to 95% relative humidity (non-condensing)                                                                                                                                                                         |
| <b>Environmental Air</b>                  | No corrosive gases. Environmental pollution level is 2 (UL840)                                                                                                                                                        |
| <b>Environment</b>                        | For Indoor Use Only                                                                                                                                                                                                   |
| <b>Vibration</b>                          | IEC60068-2-6 (Test Fc)<br>5-9Hz:3.5mm amplitude, 9-150Hz 1.0G<br>10 sweep cycles per axis on each of 3 mutually perpendicular axes.                                                                                   |
| <b>Shock</b>                              | IEC60068-2-27 (Test Ea)<br>15G peak, 11ms duration, 3 shocks in each direction per axis, on 3 mutually perpendicular axes.                                                                                            |
| <b>Noise Immunity</b>                     | <EN61131-2><br>EN61000-4-2 (ESD)<br>EN61000-4-3 (RFI)<br>EN61000-4-4 (FTB)<br>EN61000-4-6 (Conducted)<br>EN61000-4-8 (Power frequency magnetic field immunity)<br><Local Test><br>Impulse Immunity: 1000V @ 1uS pulse |
| <b>Emissions</b>                          | EN55011 Class A (Radiated RF emission)                                                                                                                                                                                |
| <b>Agency Approvals</b>                   | UL61010 (File No. E157382); CE (EN61131-2);<br>CUL Canadian C22.2                                                                                                                                                     |
| <b>Other</b>                              | RoHS 2011/65/EU Amendment (EU)2015/863                                                                                                                                                                                |



# CLICK PLUS PLC Specifications

## CLICK PLUS PLC Hardware/Software Compatibility

The table below shows the minimum software and hardware versions required for the CLICK PLUS PLCs and Option Slot Modules. The CLICK PLUS PLC can also utilize the CLICK Stackable I/O Modules, as any software and hardware version compatible with CLICK PLUS is also compatible with the CLICK Stackable I/O Modules.

| CLICK PLUS PLC Features Software Compatibility |             |                                |                    |                     |             |           |       |           |  |  |  |  |
|------------------------------------------------|-------------|--------------------------------|--------------------|---------------------|-------------|-----------|-------|-----------|--|--|--|--|
|                                                |             | Minimum CLICK Software Version |                    |                     |             |           |       |           |  |  |  |  |
| Device Type                                    | Part Number | Hardware                       | High-Speed Inputs* | High-Speed Outputs* | EtherNet/IP | DHCP, DNS | SNTP  | PID, MQTT |  |  |  |  |
| CLICK PLUS CPU                                 | C2-01CPU    | v3.00                          | v3.00              | v3.30               | v3.00       | v3.00     | v3.00 | v3.00     |  |  |  |  |
|                                                | C2-02CPU    |                                |                    |                     | N/A         |           |       |           |  |  |  |  |
|                                                | C2-03CPU    |                                |                    |                     | v3.00       |           |       |           |  |  |  |  |
|                                                | C2-01CPU-2  | v3.20                          | v3.20              |                     | v3.20       | v3.20     | v3.20 | v3.20     |  |  |  |  |
|                                                | C2-02CPU-2  |                                |                    |                     | N/A         |           |       |           |  |  |  |  |
|                                                | C2-03CPU-2  |                                |                    |                     | v3.20       |           |       |           |  |  |  |  |
| Option Slot I/O Modules                        | C2-14D1     | v3.00                          | v3.00              | v3.30               | N/A         | N/A       | N/A   | N/A       |  |  |  |  |
|                                                | C2-14D2     |                                |                    | N/A                 |             |           |       |           |  |  |  |  |
|                                                | C2-14DR     |                                |                    |                     |             |           |       |           |  |  |  |  |
|                                                | C2-14AR     |                                |                    |                     |             |           |       |           |  |  |  |  |
|                                                | C2-14TTL    | v3.70                          | v3.70              | v3.70               |             |           |       |           |  |  |  |  |
|                                                | C2-08D1-4VC | v3.00                          | v3.00              | v3.30               |             |           |       |           |  |  |  |  |
|                                                | C2-08D2-4VC |                                |                    |                     |             |           |       |           |  |  |  |  |
|                                                | C2-08DR-4VC |                                |                    | N/A                 |             |           |       |           |  |  |  |  |
|                                                | C2-08AR-4VC |                                |                    |                     |             |           |       |           |  |  |  |  |
|                                                | C2-08D1-6C  | v3.00                          | v3.00              | v3.30               |             |           |       |           |  |  |  |  |
|                                                | C2-08D2-6C  |                                |                    |                     |             |           |       |           |  |  |  |  |
|                                                | C2-08DR-6C  |                                |                    | N/A                 |             |           |       |           |  |  |  |  |
|                                                | C2-08AR-6C  |                                |                    |                     |             |           |       |           |  |  |  |  |
|                                                | C2-08D1-6V  | v3.00                          | v3.00              | v3.30               |             |           |       |           |  |  |  |  |
|                                                | C2-08D2-6V  |                                |                    |                     |             |           |       |           |  |  |  |  |
|                                                | C2-08DR-6V  |                                |                    | N/A                 |             |           |       |           |  |  |  |  |
|                                                | C2-08AR-6V  |                                |                    |                     |             |           |       |           |  |  |  |  |
| Option Slot Intelligent Modules                | C2-DCM      | v3.20                          | N/A                | N/A                 | N/A         | N/A       | N/A   | N/A       |  |  |  |  |
|                                                | C2-NRED     | v3.70                          |                    |                     |             | v3.70     | v3.70 |           |  |  |  |  |
|                                                | C2-OPCUA    |                                |                    |                     |             | N/A       |       |           |  |  |  |  |

\* High-speed Inputs and Outputs are only available when the Option Slot I/O Module is installed in Slot 0.

# Power Budgeting

## Power Budgeting

There are two factors to consider when determining the power required to operate a CLICK PLC system. The first is the power required by the PLC and internal logic-side power provided through the PLC. This includes the CPU's own I/O, any connected I/O modules that are powered through the PLC expansion port, plus any device, such as a **C-more** Micro-Graphic panel, that is powered through one of the communications ports.

The second area is the power required by all externally-connected I/O devices. This should be viewed as the field-side power required. The field-side power is dependent on the voltage used for a particular input or output device as it relates to the wired I/O point and to the calculated load rating of the connected device.

It is strongly recommended that the power source for the logic side be separate from the power source for the field side to help eliminate possible electrical noise.

Power budgeting requires the calculation of the total current the 24VDC power source needs to provide to CLICK's logic side. A separate calculation is required to determine the total current required for all devices operating from the field side of the PLC system.

Refer to the Power Budgeting example shown on the following page. The table shows required current for a CLICK PLUS PLC, two I/O modules, and a **C-more** Micro. Use the total amperage values to select a suitable power supply.



**CLICK 24VDC Power Supply**  
C0-00AC or C0-01AC



**Other 24VDC Power Supply**  
Example: PSP24-060S

## Power Consumption for CLICK and CLICK PLUS PLC Units

| PLC Current Consumption (mA) |                                       |                                   |
|------------------------------|---------------------------------------|-----------------------------------|
| Part Number                  | Power Budget<br>24VDC<br>(Logic Side) | External<br>24VDC<br>(Field Side) |
| Basic PLC Units              |                                       |                                   |
| <a href="#">C0-00DD1-D</a>   | 120                                   | 60                                |
| <a href="#">C0-00DD2-D</a>   | 120                                   | 0                                 |
| <a href="#">C0-00DR-D</a>    |                                       |                                   |
| <a href="#">C0-00AR-D</a>    |                                       |                                   |
| Standard PLC Units           |                                       |                                   |
| <a href="#">C0-01DD1-D</a>   | 140                                   | 60                                |
| <a href="#">C0-01DD2-D</a>   | 140                                   | 0                                 |
| <a href="#">C0-01DR-D</a>    |                                       |                                   |
| <a href="#">C0-01AR-D</a>    |                                       |                                   |
| Analog PLC Units             |                                       |                                   |
| <a href="#">C0-02DD1-D</a>   | 140                                   | 60                                |
| <a href="#">C0-02DD2-D</a>   | 140                                   | 0                                 |
| <a href="#">C0-02DR-D</a>    |                                       |                                   |
| Ethernet Basic PLC Units     |                                       |                                   |
| <a href="#">C0-10DD1E-D</a>  | 120                                   | 60                                |
| <a href="#">C0-10DD2E-D</a>  | 120                                   | 0                                 |
| <a href="#">C0-10DRE-D</a>   |                                       |                                   |
| <a href="#">C0-10ARE-D</a>   |                                       |                                   |
| Ethernet Standard PLC Units  |                                       |                                   |
| <a href="#">C0-11DD1E-D</a>  | 140                                   | 60                                |
| <a href="#">C0-11DD2E-D</a>  | 140                                   | 0                                 |
| <a href="#">C0-11DRE-D</a>   |                                       |                                   |
| <a href="#">C0-11ARE-D</a>   |                                       |                                   |

| PLC Current Consumption (mA)  |                                       |                                   |
|-------------------------------|---------------------------------------|-----------------------------------|
| Part Number                   | Power Budget<br>24VDC<br>(Logic Side) | External<br>24VDC<br>(Field Side) |
| Ethernet Analog PLC Units     |                                       |                                   |
| <a href="#">C0-12DD1E-D</a>   | 140                                   | 60                                |
| <a href="#">C0-12DD2E-D</a>   |                                       | 0                                 |
| <a href="#">C0-12DRE-D</a>    | 160                                   |                                   |
| <a href="#">C0-12ARE-D</a>    |                                       |                                   |
| <a href="#">C0-12DD1E-1-D</a> | 140                                   | 60                                |
| <a href="#">C0-12DD2E-1-D</a> | 160                                   | 0                                 |
| <a href="#">C0-12DRE-1-D</a>  |                                       |                                   |
| <a href="#">C0-12ARE-1-D</a>  |                                       |                                   |
| <a href="#">C0-12DD1E-2-D</a> | 140                                   | 60                                |
| <a href="#">C0-12DD2E-2-D</a> | 160                                   | 0                                 |
| <a href="#">C0-12DRE-2-D</a>  |                                       |                                   |
| <a href="#">C0-12ARE-2-D</a>  |                                       |                                   |
| CLICK PLUS PLCs               |                                       |                                   |
| <a href="#">C2-01CPU</a>      | 110                                   | 0                                 |
| <a href="#">C2-01CPU-2</a>    | 120                                   |                                   |
| <a href="#">C2-02CPU</a>      | 105                                   |                                   |
| <a href="#">C2-02CPU-2</a>    | 115                                   |                                   |
| <a href="#">C2-03CPU</a>      | 130                                   |                                   |
| <a href="#">C2-03CPU-2</a>    | 140                                   |                                   |

## Power Consumption for CLICK PLUS Option Slot Modules

| CLICK PLUS<br>Option Slot Modules<br>Current Consumption (mA) |                                       |                                   |
|---------------------------------------------------------------|---------------------------------------|-----------------------------------|
| Part Number                                                   | Power Budget<br>24VDC<br>(Logic Side) | External<br>24VDC<br>(Field Side) |
| <b>Option Slot I/O Modules</b>                                |                                       |                                   |
| <a href="#">C2-14D1</a>                                       | 50                                    | 60                                |
| <a href="#">C2-14D2</a>                                       | 50                                    | 0                                 |
| <a href="#">C2-14DR</a>                                       | 75                                    | 0                                 |
| <a href="#">C2-14AR</a>                                       | 75                                    | 0                                 |
| <a href="#">C2-14TTL</a>                                      | 220                                   | 0                                 |
| <a href="#">C2-08D1-4VC</a>                                   | 80                                    | 60                                |
| <a href="#">C2-08D2-4VC</a>                                   | 80                                    | 0                                 |
| <a href="#">C2-08DR-4VC</a>                                   | 100                                   | 0                                 |
| <a href="#">C2-08AR-4VC</a>                                   | 100                                   | 0                                 |
| <a href="#">C2-08D1-6C</a>                                    | 80                                    | 60                                |
| <a href="#">C2-08D2-6C</a>                                    | 80                                    | 0                                 |
| <a href="#">C2-08DR-6C</a>                                    | 100                                   | 0                                 |
| <a href="#">C2-08AR-6C</a>                                    | 100                                   | 0                                 |
| <a href="#">C2-08D1-6V</a>                                    | 80                                    | 60                                |
| <a href="#">C2-08D2-6V</a>                                    | 80                                    | 0                                 |
| <a href="#">C2-08DR-6V</a>                                    | 100                                   | 0                                 |
| <a href="#">C2-08AR-6V</a>                                    | 100                                   | 0                                 |
| <b>Option Slot Intelligent Modules</b>                        |                                       |                                   |
| <a href="#">C2-DCM</a>                                        | 60                                    | 0                                 |
| <a href="#">C2-NRED</a>                                       | 125                                   | 0                                 |
| <a href="#">C2-OPCUA</a>                                      | 125                                   | 0                                 |

# Power Budgeting

## Power Consumption for CLICK Stackable I/O Modules

| I/O Module Current Consumption (mA) |                                 |                             |
|-------------------------------------|---------------------------------|-----------------------------|
| Part Number                         | Power Budget 24VDC (logic side) | External 24VDC (field side) |
| <b>Discrete Input Modules</b>       |                                 |                             |
| <a href="#">C0-08SIM</a>            | 50                              | 0                           |
| <a href="#">C0-08ND3</a>            | 30                              | 0                           |
| <a href="#">C0-08ND3-1</a>          | 30                              | 0                           |
| <a href="#">C0-16ND3</a>            | 40                              | 0                           |
| <a href="#">C0-08NE3</a>            | 30                              | 0                           |
| <a href="#">C0-16NE3</a>            | 40                              | 0                           |
| <a href="#">C0-08NA</a>             | 30                              | 0                           |
| <b>Discrete Output Modules</b>      |                                 |                             |
| <a href="#">C0-08TD1</a>            | 50                              | 15                          |
| <a href="#">C0-08TD2</a>            | 50                              | 0                           |
| <a href="#">C0-16TD1</a>            | 80                              | 100                         |
| <a href="#">C0-16TD2</a>            | 80                              | 0                           |
| <a href="#">C0-08TA</a>             | 80                              | 0                           |
| <a href="#">C0-04TRS</a>            | 100                             | 0                           |
| <a href="#">C0-04TRS-10</a>         | 120                             | 0                           |
| <a href="#">C0-08TR</a>             | 100                             | 0                           |
| <a href="#">C0-08TR-3</a>           | 90                              | 0                           |

| I/O Module Current Consumption (continued) (mA) |                                 |                             |
|-------------------------------------------------|---------------------------------|-----------------------------|
| Part Number                                     | Power Budget 24VDC (logic side) | External 24VDC (field side) |
| <b>Discrete Combo I/O Modules</b>               |                                 |                             |
| <a href="#">C0-16CDD1</a>                       | 80                              | 50                          |
| <a href="#">C0-16CDD2</a>                       | 80                              | 0                           |
| <a href="#">C0-08CDR</a>                        | 80                              | 0                           |
| <b>Analog Input Modules</b>                     |                                 |                             |
| <a href="#">C0-04AD-1</a>                       | 20                              | 65                          |
| <a href="#">C0-04AD-2</a>                       | 23                              | 65                          |
| <a href="#">C0-04POT</a>                        | 30                              | 0                           |
| <a href="#">C0-04RTD</a>                        | 25                              | 0                           |
| <a href="#">C0-04THM</a>                        | 25                              | 0                           |
| <b>Analog Output Modules</b>                    |                                 |                             |
| <a href="#">C0-04DA-1</a>                       | 20                              | 145                         |
| <a href="#">C0-04DA-2</a>                       | 20                              | 85                          |
| <b>Analog Combo I/O Modules</b>                 |                                 |                             |
| <a href="#">C0-4AD2DA-1</a>                     | 25                              | 75                          |
| <a href="#">C0-4AD2DA-2</a>                     | 20                              | 65                          |
| <b>C-more Micro-Graphic Panel</b>               |                                 |                             |
| <b>Monochrome only</b>                          | 90                              | 0                           |

System Configuration

PLC Name:  (Max. 24 characters)

☐ Start-up I/O Config Check

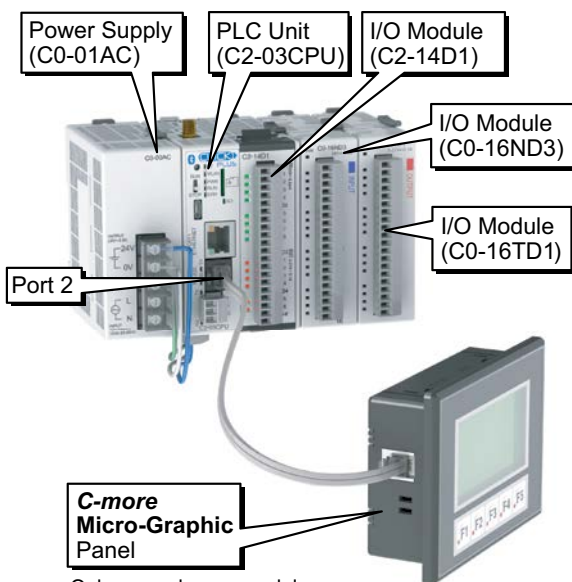
System Configuration Diagram:

System Configuration Table:

| Name             | P/S       | CPU       | Slot      | I/O 1     | I/O 2     | I/O 3     | I/O 4     | I/O 5     | I/O 6     | I/O 7     | I/O 8     |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Module Type      | C0-01AC   | C2-03CPU  | C2-14D2   | C0-16ND3  | C0-08NE3  | C0-16NE3  | C0-16TD1  | C0-04TRS  | C0-08TR   |           |           |
| Input(X)         |           |           | X001-X008 | X101-X116 | X201-X208 | X301-X316 |           |           |           |           |           |
| Output(Y)        |           |           | Y001-Y006 |           |           |           | Y401-Y416 | Y501-Y504 | Y601-Y608 |           |           |
| Power Budget(mA) | +1300     | -140      | -80       | -40       | -20       | -40       | -80       | -100      | -100      |           |           |
|                  | Change... | Change... | Change... | Change... | Change... | Change... | Change... | Change... | Change... | Select... | Select... |
|                  |           |           | Remove    | Remove    | Remove    | Remove    | Remove    | Remove    | Remove    | Remove    | Remove    |
|                  |           |           | Config... | Config... | Config... | Config... | Config... | Config... | Config... | Config... | Config... |

☒ Assign Nicknames & Comments when Analog I/O Used

View I/O MODBUS Addresses OK Cancel Help



Only monochrome models can be powered from port 2.

### Power Budgeting Example

| Current Consumption (mA) Example |                                 |                             |
|----------------------------------|---------------------------------|-----------------------------|
| Part Number                      | Power Budget 24VDC (logic side) | External 24VDC (field side) |
| <a href="#">C2-03CPU</a>         | 130                             | 0                           |
| <a href="#">C2-14D1</a>          | 50                              | 60                          |
| <a href="#">C0-16ND3</a>         | 40                              | 0                           |
| <a href="#">C0-16TD1</a>         | 80                              | 100                         |
| <a href="#">C-more Micro</a>     | 90                              | 0                           |
| <b>Total:</b>                    | <b>390</b>                      | <b>160 *</b>                |

\* Add in calculated load of connected I/O devices.





# Wiring System for CLICK PLC Family

## Wiring Solutions using the ZIPLink Wiring System

**ZIPLinks** eliminate the normally tedious process of wiring between devices by utilizing prewired cables and DIN rail mount connector modules. It's as simple as plugging in a cable connector at either end or terminating wires at only one end. Prewired cables keep installation clean and efficient, using half the space at a fraction of the cost of standard terminal blocks.



**ZIPLinks** are available in a variety of styles to suit your needs, including feedthrough connector module. **ZIPLinks** are available for all Basic, Standard and Ethernet CLICK PLC units, select CLICK PLUS option slot modules, and most discrete and analog stackable I/O modules. Pre-printed I/O-specific adhesive label strips for quick marking of **ZIPLink** modules are provided with **ZIPLink** cables.

### **Solution 1: CLICK PLC, CLICK PLUS PLC with Option Slot Module, and Stackable I/O Modules to ZIPLink Connector Modules**

When looking for quick and easy I/O-to-field termination, a **ZIPLink** connector module used in conjunction with a prewired **ZIPLink** cable, consisting of an I/O terminal block at one end and a multi-pin connector at the other end, is the best solution.

Use the "CLICK PLC PLC Unit **ZIPLink** Selector" table and CLICK I/O **ZIPLink** selector tables located in this section:

- Locate your PLC or I/O module.
- Select a **ZIPLink** Module.
- Select a corresponding **ZIPLink** Cable.

### **Solution 2: CLICK/CLICK PLUS PLC I/O to 3rd Party Devices**

When wanting to connect PLC I/O (built-in, option slot module, or stackable) to another device within close proximity, no extra terminal blocks are necessary when using the **ZIPLink** Pigtail Cables. **ZIPLink** Pigtail Cables are prewired to an I/O terminal block with color-coded pigtail with soldered-tip wires on the other end.

Use the I/O Modules to 3rd Party Devices selector tables located in the **ZIPLink** section:

- Locate your PLC or I/O module.
- Select a **ZIPLink** Pigtail Cable that is compatible with your 3rd party device



### **Solution 3: GS Series and DuraPulse Drives Communication Cables**

Need to communicate via Modbus RTU to a drive or a network of drives?

**ZIPLink** cables are available in a wide range of configurations for connecting to PLCs and SureServo, SureStep, Stellar Soft Starter and AC drives. Add a **ZIPLink** communications module to quickly and easily set up a multi-device network.

Use the Drives Communication selector tables located in the **ZIPLink** section:

- Locate your Drive and type of communications.
- Select a **ZIPLink** cable and other associated hardware.



### **Solution 4: Serial Communications Cables**

**ZIPLink** offers communications cables for use with CLICK PLCs and select CLICK PLUS PLCs that can also be used with other communications devices. Connections include a 6-pin RJ12 connector which can be used in conjunction with the RJ12 Feedthrough module.

Use the Serial Communications Cables selector table located in the **ZIPLink** section:

- Locate your connector type
- Select a cable.





# Wiring System for CLICK PLC Family

## CLICK PLC & CLICK PLUS Option Slot ZIPLink Selector

| PLC or Option Slot Module     |                               |                                                                                                                          | ZIPLink     |                                                          |                                  |
|-------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------|----------------------------------|
| CLICK PLC Unit                | CLICK PLUS Option Slot Module | # of Terms                                                                                                               | Component   | Module Part No.                                          | Cable Part No.                   |
| <a href="#">C0-00DD1-D</a>    | NA                            | 20                                                                                                                       | Feedthrough | <a href="#">ZL-RTB20</a> ,<br><a href="#">ZL-RTB20-1</a> | <a href="#">ZL-C0-CBL20</a><br>* |
| <a href="#">C0-00DD2-D</a>    | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-00DR-D</a>     | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-00AR-D</a>     | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-01DD1-D</a>    | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-01DD2-D</a>    | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-01DR-D</a>     | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-01AR-D</a>     | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-02DD1-D</a>    | NA                            | No <b>ZIPL</b> inks are available for CLICK Analog PLC units.                                                            |             |                                                          |                                  |
| <a href="#">C0-02DD2-D</a>    | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-02DR-D</a>     | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-10DD1E-D</a>   | NA                            | 20                                                                                                                       | Feedthrough | <a href="#">ZL-RTB20</a> ,<br><a href="#">ZL-RTB20-1</a> | <a href="#">ZL-C0-CBL20</a><br>* |
| <a href="#">C0-10DD2E-D</a>   | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-10DRE-D</a>    | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-10ARE-D</a>    | NA                            |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-11DD1E-D</a>   | <a href="#">C2-14D1</a>       |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-11DD2E-D</a>   | <a href="#">C2-14D2</a>       |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-11DRE-D</a>    | <a href="#">C2-14DR</a>       |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-11ARE-D</a>    | <a href="#">C2-14AR</a>       |                                                                                                                          |             |                                                          |                                  |
| NA                            | <a href="#">C2-14TTL</a>      | No <b>ZIPL</b> inks are available for CLICK Ethernet Analog PLC units or CLICK PLUS Option Slot Modules with analog I/O. |             |                                                          |                                  |
| <a href="#">C0-12DD1E-D</a>   | <a href="#">C2-08D1-4VC</a>   |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12DD2E-D</a>   | <a href="#">C2-08D2-4VC</a>   |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12DRE-D</a>    | <a href="#">C2-08DR-4VC</a>   |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12ARE-D</a>    | <a href="#">C2-08AR-4VC</a>   |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12DD1E-1-D</a> | <a href="#">C2-08D1-6C</a>    |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12DD2E-1-D</a> | <a href="#">C2-08D2-6C</a>    |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12DRE-1-D</a>  | <a href="#">C2-08DR-6C</a>    |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12ARE-1-D</a>  | <a href="#">C2-08AR-6C</a>    |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12DD1E-2-D</a> | <a href="#">C2-08D1-6V</a>    |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12DD2E-2-D</a> | <a href="#">C2-08D2-6V</a>    |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12DRE-2-D</a>  | <a href="#">C2-08DR-6V</a>    |                                                                                                                          |             |                                                          |                                  |
| <a href="#">C0-12ARE-2-D</a>  | <a href="#">C2-08AR-6V</a>    |                                                                                                                          |             |                                                          |                                  |
| NA                            | <a href="#">C2-DCM</a>        | No <b>ZIPL</b> inks are available for CLICK PLUS Option Slot Communications Module                                       |             |                                                          |                                  |
|                               | <a href="#">C2-NRED</a>       |                                                                                                                          |             |                                                          |                                  |
|                               | <a href="#">C2-OPCUA</a>      |                                                                                                                          |             |                                                          |                                  |

### Table Notes:

\* Select the cable length by replacing the \* with: Blank = 0.5 m, -1 = 1.0 m, or -2 = 2.0 m.

1 Note: The C0-04TRS relay output is derated not to exceed 2A per point maximum when used with the ZIPLink wiring system.

2 Note: Fuses (5x20 mm) are not included. See Edison Electronic Fuse section for 5x20 mm fuse. S500 and GMA electronic circuit protection is recommended for fast-acting maximum protection. S506 and GMC electronic circuit protection is recommended for time-delay performance. Ideal for inductive circuits. To ensure proper operation, do not exceed the voltage and current rating of the ZIPLink module. ZL-RFU20 = 2A per circuit.

## CLICK/CLICK PLUS PLC Discrete Input Module ZIPLink Selector

| I/O Module   |                          | ZIPLink     |                 |                |
|--------------|--------------------------|-------------|-----------------|----------------|
| Input Module | # of Terms               | Component   | Module Part No. | Cable Part No. |
| C0-08SIM     | Not supported by ZIPLink |             |                 |                |
| C0-08ND3     | 11                       | Feedthrough | ZL-RTB20        | ZL-C0-CBL11 *  |
| C0-08ND3-1   |                          |             |                 |                |
| C0-08NE3     |                          |             |                 |                |
| C0-08NA      |                          |             |                 |                |
| C0-16ND3     | 20                       | Feedthrough | ZL-RTB20        | ZL-C0-CBL20 *  |
|              |                          | Sensor      | ZL-LTB16-24-1   |                |
| C0-16NE3     | 20                       | Feedthrough | ZL-RTB20        |                |
|              |                          | Sensor      | ZL-LTB16-24-1   |                |

## CLICK/CLICK PLUS PLC Discrete Output Module ZIPLink Selector

| I/O Module                  |                                 | ZIPLink          |                               |                               |
|-----------------------------|---------------------------------|------------------|-------------------------------|-------------------------------|
| Output Module               | # of Terms                      | Component        | Module Part No.               | Cable Part No.                |
| <a href="#">C0-08TD1</a>    | 11                              | Feedthrough      | <a href="#">ZL-RTB20</a>      | <a href="#">ZL-C0-CBL11 *</a> |
| <a href="#">C0-08TD2</a>    |                                 |                  |                               |                               |
| <a href="#">C0-08TR</a>     |                                 |                  |                               |                               |
| <a href="#">C0-08TR-3</a>   | Not supported by <b>ZIPLink</b> |                  |                               |                               |
| <a href="#">C0-08TA</a>     |                                 |                  |                               |                               |
| <a href="#">C0-16TD1</a>    | 20                              | Feedthrough      | <a href="#">ZL-RTB20</a>      | <a href="#">ZL-C0-CBL20*</a>  |
|                             |                                 | Fuse             | <a href="#">ZL-RFU20 2</a>    |                               |
|                             |                                 | Relay (sinking)  | <a href="#">ZL-RRL16-24-1</a> |                               |
| <a href="#">C0-16TD2</a>    | 20                              | Feedthrough      | <a href="#">ZL-RTB20</a>      | <a href="#">ZL-C0-CBL20*</a>  |
|                             |                                 | Fuse             | <a href="#">ZL-RFU20 2</a>    |                               |
|                             |                                 | Relay (sourcing) | <a href="#">ZL-RRL16-24-2</a> |                               |
| <a href="#">C0-04TRS1</a>   | 20                              | Feedthrough      | <a href="#">ZL-RTB20</a>      | <a href="#">ZL-C0-CBL20*</a>  |
| <a href="#">C0-04TRS-10</a> | Not supported by <b>ZIPLink</b> |                  |                               |                               |

## CLICK/CLICK PLUS PLC Combo I/O Module ZIPLink Selector

| I/O Module   |            | ZIPLink     |                 |                |
|--------------|------------|-------------|-----------------|----------------|
| Combo Module | # of Terms | Component   | Module Part No. | Cable Part No. |
| C0-16CDD1    | 20         | Feedthrough | ZL-RTB20        | ZL-C0-CBL20 *  |
| C0-16CDD2    |            |             |                 |                |
| C0-08CDR     | 11         | Feedthrough | ZL-RTB20        | ZL-C0-CBL11 *  |

## CLICK/CLICK PLUS PLC Analog I/O Module ZIPLink Selector

| I/O Module    |            | ZIPLink                                                     |                 |                |
|---------------|------------|-------------------------------------------------------------|-----------------|----------------|
| Analog Module | # of Terms | Component                                                   | Module Part No. | Cable Part No. |
| C0-04AD-1     | 11         | Feedthrough                                                 | ZL-RTB20        | ZL-C0-CBL11 *  |
| C0-04AD-2     | 11         | Feedthrough                                                 | ZL-RTB20        | ZL-C0-CBL11 *  |
| C0-04POT      | 0          | No ZIPLinks are available for RTD and thermocouple modules. |                 |                |
| C0-04RTD      | 20         |                                                             |                 |                |
| C0-04THM      | 11         |                                                             |                 |                |
| C0-04DA-1     | 11         | Feedthrough                                                 | ZL-RTB20        | ZL-C0-CBL11 *  |
| C0-04DA-2     | 11         | Feedthrough                                                 | ZL-RTB20        | ZL-C0-CBL11 *  |
| C0-4AD2DA-1   | 20         | Feedthrough                                                 | ZL-RTB20        | ZL-C0-CBL20 *  |
| C0-4AD2DA-2   | 20         | Feedthrough                                                 | ZL-RTB20        | ZL-C0-CBL20 *  |



# Accessories

## **C2-USER-M**     **\$4pv\_:** **CLICK PLUS PLC Hardware User Manual**

Manual covers all CLICK PLUS PLC and I/O module installation and wiring, specifications, error codes and troubleshooting guide. The CLICK PLUS PLC Hardware User Manual can be downloaded free at the AutomationDirect Web site; [www.AutomationDirect.com](http://www.AutomationDirect.com)



## **C0-USER-M**     **\$;c8t:** **CLICK PLC Hardware User Manual**

Manual covers all CLICK PLC and I/O module installation and wiring, specifications, error codes and troubleshooting guide. The CLICK PLC Hardware User Manual can be downloaded free at the AutomationDirect Web site; [www.AutomationDirect.com](http://www.AutomationDirect.com)



## **C0-PGMSW**     **\$0c8x:** **Programming Software USB**

The programming software can be downloaded free at the AutomationDirect Web site, or the USB can be purchased from the AutomationDirect online Web store. [www.AutomationDirect.com](http://www.AutomationDirect.com)



## **EA-MG-PGM-CBL**     **\$-04j\_:** **PC to Panel Programming Cable Assembly for C-more Micro-Graphic Panels and CLICK/CLICK PLUS PLCs**

The 6-ft cable assembly connects a personal computer to any **C-more** Micro-Graphic panel, CLICK PLC, or select CLICK PLUS PLC for setup and programming.

*Note: This cable assembly uses the PC's USB port and converts the signals to serial transmissions. The USB port supplies 5VDC to the Micro-Graphic panel for configuration operations.*

Assembly includes standard USB A-type connector to B-type connector cable, custom converter, and an RS232C cable with an RJ12 modular connector on each end.



## **USB-CBL-AMICB6**     **\$-?ui:** **USB A to USB microB Programming Cable Assembly (CLICK PLUS Only)**

Programming cable, USB A to USB microB, 6ft (1.83 m) length. For use with CLICK PLUS PLCs and most USB devices. The USB port supplies 5VDC to the CLICK PLUS CPU for programming.



## **D2-DSCBL**     **\$04nd:** **Programming Cable for CLICK/CLICK PLUS and DirectLOGIC PLCs**

12ft. (3.66 m) RS232 shielded PC programming cable for CLICK, select CLICK PLUS PLCs, DL05, DL06, DL105, DL205, D3-350, D4-450, D4-454, and Do-more H2 and T1H series CPUs. 9-pin D-shell female connector to an RJ12 6P6C connector.



*Note: If your PC has a USB port but does not have a serial port, you must use programming cable [EA-MG-PGM-CBL](#) to connect to CLICK PLCs. For CLICK PLUS PLCs, you may also use [USB-CBL-AMICB6](#)*

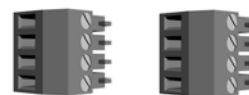
## **C0-3TB**     **\$0c8z:** **Spare 3-Pole Terminal Block**

Replacement 3-pole terminal block for the 3-wire RS-485 Port 3 on CLICK Standard and Analog PLCs as well as the CLICK PLUS [C2-03CPU](#). Sold in packs of 2.



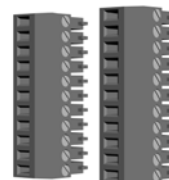
## **C0-4TB**     **\$;0c8j:** **Spare 24VDC Power Terminal Block**

Replacement terminal block for the 24VDC supply power to the PLC. Sold in packs of 2.



## **C0-8TB**     **\$;0c8j:** **Spare 8-Point I/O Terminal Block**

Replacement terminal block for the 8-point I/O modules. Sold in packs of 2.



## **C0-8TB-1**     **\$4ghv:** **Spare 13-Point I/O Terminal Block**

Replacement terminal block for the 8-point I/O relay modules. Sold in packs of 2.



## **C0-16TB**     **\$0c8y:** **Spare 16-Point I/O Terminal Block**

Replacement terminal block for the 16-point I/O modules and PLC built-in I/O. Sold in packs of 2.



## **C2-6TB**     **\$;58\_f:** **Spare 6-pt Terminal Block**

Replacement terminal block for the C2-DCM serial ports. Sold in packs of 2.



# Accessories

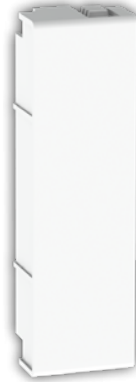
## **SE-ANT250**    **\$1o8p:** **Wi-Fi/Bluetooth Dome Antenna**

2.4 GHz antenna, IP67, panel mount, 9.8 ft (3m) cable length, for external mounting when CLICK PLUS PLC is installed in a metallic enclosure.



## **C2-FILL**    **\$;-4lqf:** **CPU Option Slot Cover**

Snap-on cover for CLICK PLUS CPU Option Slot in applications without an Option Slot module present.



## **MSD-SLC16G**    **\$0591d:** 16GB microSD card, industrial grade, 3D NAND Flash (with SLC Mode), 85°C [185°F] max operating temp.



## **SE-ANT210**    **\$1o8o:** **Wi-Fi/Bluetooth Whip Antenna**

Whip/straight 2.4 GHz antenna, IP65, connector mount. Not recommended for installation in a metallic enclosure.



## **D2-BAT-1**    **\$e7n:** Replacement CR2354 battery for Standard, Analog, Ethernet Standard and Ethernet Analog PLC units.



## **TW-SD-MSL-2**    **\$coo:** **Insulated Slotted Screwdriver** 0.4 x 2.5 x 80 mm slotted screwdriver for terminal blocks.



## **DN-EB35MN**    **\$-07zj:** **DINector End Bracket**



## **D0-MC-BAT**    **\$;6t8:** Replacement CR2032 battery for CLICK PLUS PLC units.



## **DN-WS**    **\$;0etv:** **Wire Stripper**



## **C-more and C-more Micro** **Graphic Operator Interfaces**



## **ZIPLink Wiring Systems**



## **Ethernet Cables**

Pre-terminated Cat5e Ethernet patch cables with RJ45 connectors provide dependable communication in industrial applications. These cables are available in various lengths and support transmission speeds of 10/100/1000 Mbps.

