

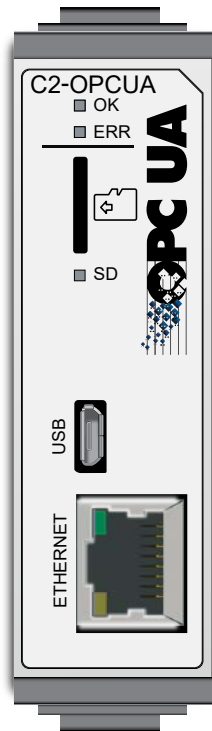
CLICK PLUS Option Slot Module Specifications

C2-OPCUA

\$195.00

Communications Module

CLICK PLUS communication module, OPC-UA Server and SNTP Client, 1 port, (1) microB-USB and (1) Ethernet 10/100Base-T (RJ45) port(s). For use with all CLICK PLUS PLCs.



SD Card Slot Specifications

Supported Card Type	microSDHC	
Format	FAT32	
Capacity	32GB maximum	
Recommended Card	MSD-SLC16G	
Status Indicator (GREEN)	ON	SD card mounted
	Blinking	SD card activity
	OFF	No SD card not mounted

Micro USB Port Specifications

Communications Rating	USB 2.0 High speed (480Mbps)
Connector	Micro USB Type B
5V Bus Power	No
USB Cable	Maximum length 3m Shielded cable recommended
Communication Method	Virtual Ethernet over USB
Default Settings	IP address acquisition by APIPA. PC-side IP address automatically assigned by DHCP server function.
Protocols	OPC UA Server

Ethernet Port Specifications

Communications Rating		10/100Base-T	
Cable Specification		Category 5	
Auto MDI/MDI-X		Yes	
Connector		RJ45	
IP Address		Fixed address (default), manual address	
Protocols		OPC UA Server SNTP Client DNS	
Status Indicator	LINK/ACT (GREEN)	ON	Link established
		Blinking	Activity
		OFF	No link
	SPEED (YELLOW)	ON	100Mbps
		OFF	10Mbps

OPC UA Specifications

OPC UA Version	1.04	
Type	Server	
Profile	Embedded 2017 UA Server Profile	
Number of Client Connections	5 maximum	
Number of Data Items	1024 maximum	
Total Data Size	4096 bytes maximum	
Security	Sign, Sign and Encrypt, None	
Authentication	User and Password, Anonymous	
Data Access	Can access all bit and data memory of CLICK PLUS	
	Read	X, T, CT, XD, some SC, some SD
	Read/Write	Y, C, DS, DD, DH, DF, YD, TD, CTD, TXT, some SC, some SD

General Status Indicators

OK (GREEN)	ON	Application operating
	Fast Blinking (200ms)	Application disabled
	Slow Blinking (500ms)	U-boot/kernel booting Application booting
	OFF	Power off
ERR (RED)	ON	Self-diagnostic Error (ERROR)
	Slow Blinking (500ms)	Self-diagnostic Error (WARNING) or Application disabled
	OFF	Power off Operating Application (no error)

General Specifications

24VDC Bus Power Required	Max 3W*
Drawing Link	PDF
Weight	41g

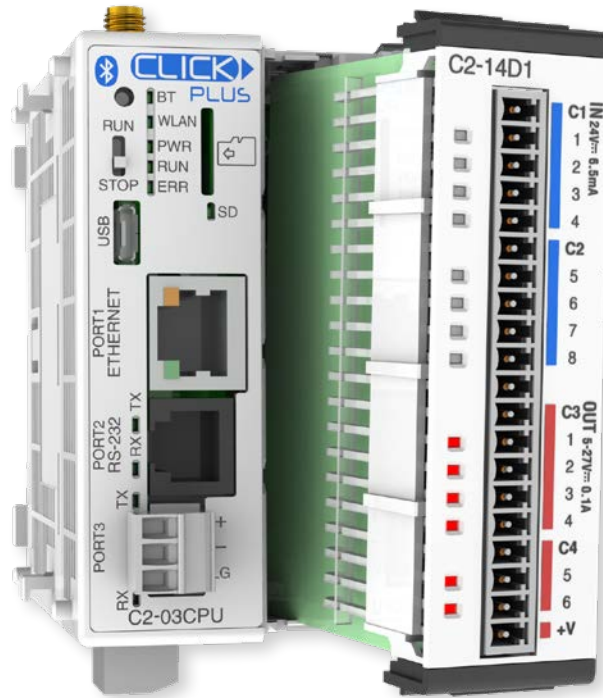
* Due to the large current consumption of OPCUA, it does not support USB low power mode with C2-CPU. Requires 24V power supply.

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	
Operating Temperature	32°F to 131°F [0°C to 55°C]
Storage Temperature	-4°F to 158°F [-20°C to 70°C] IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)
Ambient Humidity	30% to 95% relative humidity (non-condensing)
Environmental Air	No corrosive gases. Environmental pollution level is 2 (UL840)
Environment	For Indoor Use Only
Vibration	IEC60068-2-6 (Test Fc) 5-9Hz:3.5mm amplitude, 9-150Hz 1.0G 10 sweep cycles per axis on each of 3 mutually perpendicular axes.
Shock	IEC60068-2-27 (Test Ea) 15G peak, 11ms duration, 3 shocks in each direction per axis, on 3 mutually perpendicular axes.
Noise Immunity	<EN61131-2> EN61000-4-2 (ESD) EN61000-4-3 (RFI) EN61000-4-4 (FTB) EN61000-4-6 (Conducted) EN61000-4-8 (Power frequency magnetic field immunity) <Local Test> Impulse Immunity: 1000V @ 1uS pulse
Emissions	EN55011 Class A (Radiated RF emission)
Agency Approvals	UL61010 (File No. E157382); CE (EN61131-2); CUL Canadian C22.2
Other	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		N/A																							
	C2-14AR																									
	C2-14TTL	v3.70	v3.70	v3.70																						
	C2-08D1-4VC	v3.00	v3.00	v3.30					N/A	N/A	N/A	N/A														
	C2-08D2-4VC			N/A																						
	C2-08DR-4VC		N/A																							
	C2-08AR-4VC																									
	C2-08D1-6C	v3.00	v3.00	v3.30									N/A	N/A	N/A	N/A										
	C2-08D2-6C			N/A																						
	C2-08DR-6C		N/A																							
	C2-08AR-6C																									
	C2-08D1-6V	v3.00	v3.00	v3.30													N/A	N/A	N/A	N/A						
	C2-08D2-6V			N/A																						
	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 24VDC (Logic Side)	External 24VDC (Field Side)
Basic PLC Units		
C0-00DD1-D	120	60
C0-00DD2-D	120	0
C0-00DR-D		
C0-00AR-D		
Standard PLC Units		
C0-01DD1-D	140	60
C0-01DD2-D	140	0
C0-01DR-D		
C0-01AR-D		
Analog PLC Units		
C0-02DD1-D	140	60
C0-02DD2-D	140	0
C0-02DR-D		
Ethernet Basic PLC Units		
C0-10DD1E-D	120	60
C0-10DD2E-D	120	0
C0-10DRE-D		
C0-10ARE-D		
Ethernet Standard PLC Units		
C0-11DD1E-D	140	60
C0-11DD2E-D	140	0
C0-11DRE-D		
C0-11ARE-D		

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

Power Consumption for CLICK PLUS Option Slot Modules

CLICK PLUS Option Slot Modules Current Consumption (mA)		
Part Number	Power Budget 24VDC (Logic Side)	External 24VDC (Field Side)
Option Slot I/O Modules		
C2-14D1	50	60
C2-14D2	50	0
C2-14DR	75	0
C2-14AR	75	0
C2-14TTL	220	0
C2-08D1-4VC	80	60
C2-08D2-4VC	80	0
C2-08DR-4VC	100	0
C2-08AR-4VC	100	0
C2-08D1-6C	80	60
C2-08D2-6C	80	0
C2-08DR-6C	100	0
C2-08AR-6C	100	0
C2-08D1-6V	80	60
C2-08D2-6V	80	0
C2-08DR-6V	100	0
C2-08AR-6V	100	0
Option Slot Intelligent Modules		
C2-DCM	60	0
C2-NRED	125	0
C2-OPCUA	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)
Discrete Input Modules		
C0-08SIM	50	0
C0-08ND3	30	0
C0-08ND3-1	30	0
C0-16ND3	40	0
C0-08NE3	30	0
C0-16NE3	40	0
C0-08NA	30	0
Discrete Output Modules		
C0-08TD1	50	15
C0-08TD2	50	0
C0-16TD1	80	100
C0-16TD2	80	0
C0-08TA	80	0
C0-04TRS	100	0
C0-04TRS-10	120	0
C0-08TR	100	0
C0-08TR-3	90	0

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

System Configuration

PLC Name: (Max. 24 characters)

☐ Start-up I/O Config Check

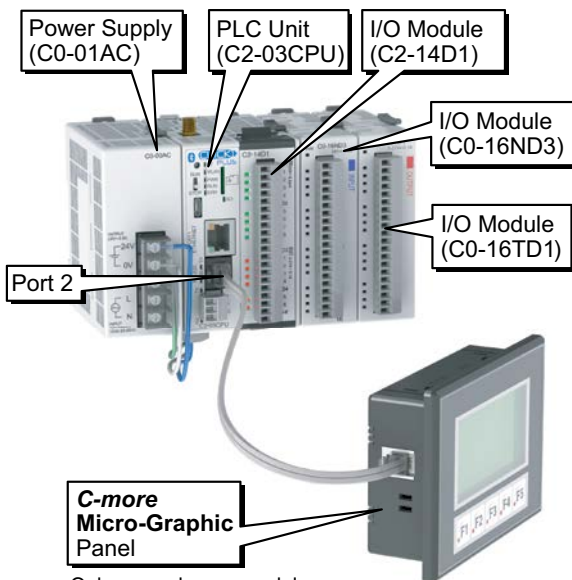
System Configuration Diagram:

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



Power Budgeting Example

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

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

Accessories

C2-USER-M \$0.00

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



C0-USER-M \$0.00

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C0-PGMSW \$12.00

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



EA-MG-PGM-CBL \$52.00

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 \$5.25

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 \$35.00

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 \$10.00

Spare 3-Pole Terminal Block

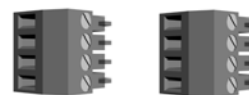
Replacement 3-pole terminal block for the 3-wire RS-485 Port 3 on CLICK Standard and Analog PLCs as well as the CLICK PLUS [C2-03CPU](#). Sold in packs of 2.



C0-4TB \$10.00

Spare 24VDC Power Terminal Block

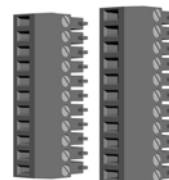
Replacement terminal block for the 24VDC supply power to the PLC. Sold in packs of 2.



C0-8TB \$16.50

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 \$19.50

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 \$23.00

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 \$16.50

Spare 6-pt Terminal Block

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



Accessories

SE-ANT250 \$37.00

Wi-Fi/Bluetooth Dome Antenna

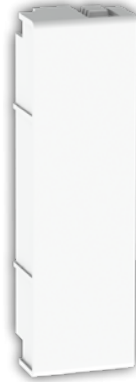
2.4 GHz antenna, IP67, panel mount, 9.8 ft (3m) cable length, for external mounting when CLICK PLUS PLC is installed in a metallic enclosure.



C2-FILL \$8.50

CPU Option Slot Cover

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



MSD-SLC16G \$100.00

16GB microSD card, industrial grade, 3D NAND Flash (with SLC Mode), 85°C [185°F] max operating temp.



SE-ANT210 \$10.50

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 \$6.50

Replacement CR2354 battery for Standard, Analog, Ethernet Standard and Ethernet Analog PLC units.



TW-SD-MSL-2 \$4.00

Insulated Slotted Screwdriver

0.4 x 2.5 x 80 mm slotted screwdriver for terminal blocks.



DN-EB35MN \$31.50

DINector End Bracket



D0-MC-BAT \$3.00

Replacement CR2032 battery for CLICK PLUS PLC units.



DN-WS \$72.00

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.

