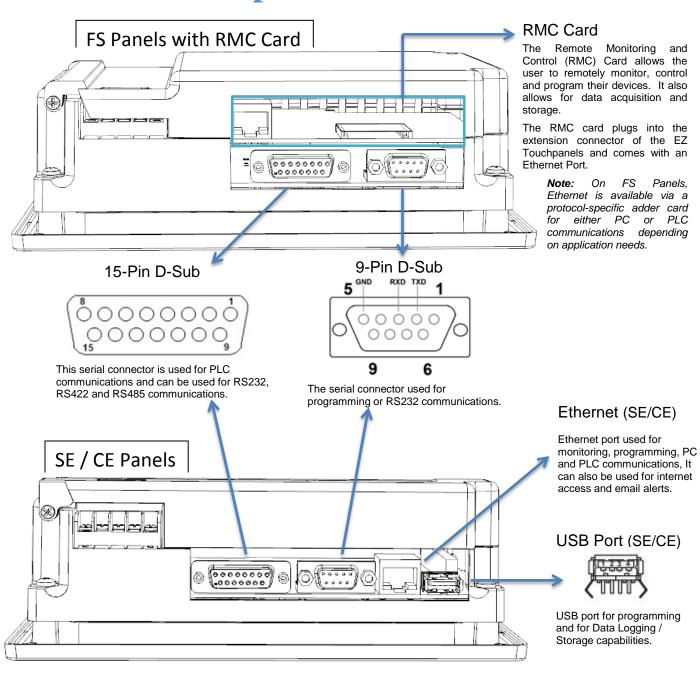
# **SE/CE/FS Touchpanels**



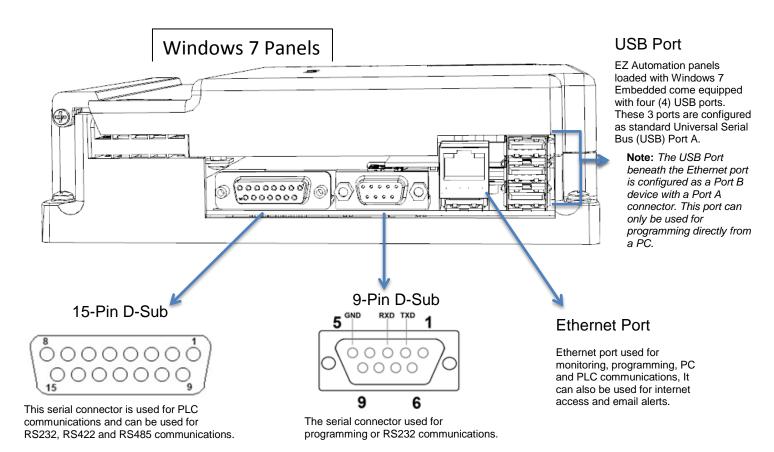


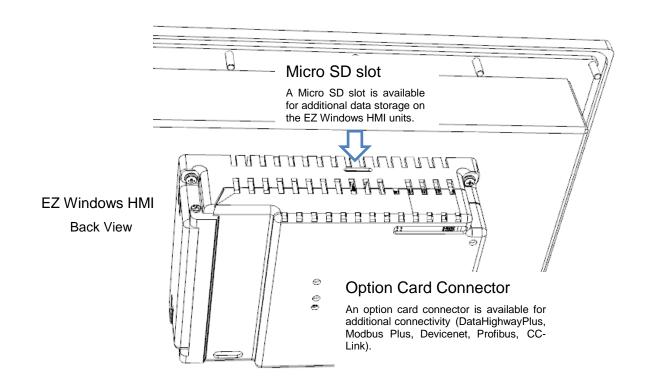
## Option Cards (CE/FS)

Panels ending in -CE or -FS possess an Option Card connector for additional connectivity (Data Highway Plus, Modbus Plus, Devicenet, Profibus, CC-Link.) Plug option cards into the 62-pin connector.

In addition, CE Panels allow for compact flash storage. Simply open back cover to insert it in the top right corner.

# **Windows 7 Panels**





# **Programming and Communications**

## **Programming**

EZ Panels can be programmed in multiple ways: serial connection, Ethernet connection, USB Flash Drive, USB cable, or using a Compact Flash card (depending on the model). EZAutomation's programming software (EZ-PANELEDIT) automatically lists the different programming methods available based on the model type. In addition, with our patented OEM Packager, a user can upload a new program using an .exe executable file, rather than having to use the full programming software. See examples of programming options below:

- RS232 programming cable (EZ-PGMCBL)
- Connect an EZAutomation SE series, CE panel, or FS panel equipped with an RMC (Remote Monitoring and Control) card, to a PC via an Ethernet hub or switch, and CAT5 Ethernet cables.
- Use an Ethernet crossover cable between a PC Ethernet port and an EZAutomation SE series, CE panel, or FS panel equipped with an RMC (Remote Monitoring and Control) card.
- Connect a USB Programming Cable from a USB port type A on the PC to the USB type A programming port on the Windows HMI touch panel. The USB connection is for direct connection only and does not support USB hubs.

Use the table (shown right) to compare communication capabilities between models.

EZ Touchpanel Comparison						
	EZ Touch	EZ SE Series	EZ Windows CE	EZ Windows HMI		
Serial 9-pin port	$\checkmark$	<b>/</b>	<b>/</b>	$\checkmark$		
Serial 15-pin PLC port	<b>✓</b>	<b>/</b>	<b>/</b>	<b>✓</b>		
Ethernet		<b>/</b>	<b>✓</b>	<b>✓</b>		
U.S.B		<b>/</b>	<b>✓</b>	<b>✓</b>		
Compact Flash	$\checkmark$		<b>✓</b>			
RAM adder	$\checkmark$					
Network Option Cards	<b>✓</b>		<b>✓</b>	<b>√</b>		

## System Requirements

The following are the system requirements for the EZ Programming Software (EZ-PANELEDIT).

-Supported Operating System: Windows XP, Vista and 7

-PC Resolution: SVGA or better recommended

#### 15 Pin Connector

Depending on the communication protocol, the 15-Pin D-Sub connector can be used for RS232, RS422 and RS485 communications. The port supports the following PLC communication protocols:

- Allen-Bradley DF1 Half and Full Duplex (PLC-5, SLC 500, MicroLogix 1000, 1200 and 1500)
- DH485/AIC/AIC+ for MicroLogix 1000, 1200, 1500, SLC500, 5/01, /02, /03
- Aromat Mewtocol COM
- AutomationDirect DirectLOGIC PLCs
- · Animatics Smart Motor
- Applied Motion SCL
- All Motion EZ Stepper
- Baldor
- Bristol Babcock BSAP Protocol (Native Addressing)
- Control Techniques Unidrive 2-wire, 4-wire (binary)
- Control Technology Corp. (CTC) CTC2600, 2700 and 5100 (CTC Binary)
- EZPLĆ
- GE Fanuc SNPX (90/30, 90/70)
- Idec Computer Link
- Omron Host Link (C200 and C500)
- Parker-Hanifin
- Mitsubishi FX Series
- Modicon MODBUS RTU
- Siemens S7 MPI Adapter series PLCs
  Square D Symax 300 Series CPU, 400 Series CPU (Symax)
- Texas Instruments TI5x5 Series, TI505, TI545-1102, TI545-1104
- Yaskawa Memobus Native Addressing

(See table below for more information)

#### **USB Port**

On **SE/CE Models**, users can use a USB Flash Drive with a preloaded file for programming. In addition, this port can be used for Data Logging and Storage capabilities directly to a Flash Drive, which is both hot-swappable and accessible remotely.

On **Windows 7 Panels**, the 3 Port A USBs can be used to connect various USB HID (Human Input Device) devices to the panel, such as: Scanners, Printers, Cameras, Weigh scales, keyboards, etc. These 3 ports can also support a HUB connection for additional connections.

The fourth USB port is configured as a Port B device with a Port A connector. This allows the Windows HMI to be programmed via USB using a standard A-to-A USB cable.

### **Ethernet Port**

All models ending in -SE (**SE Series**), or -E (**Windows CE** or **Windows 7 Embedded**) are capable of both PC and PLC communications simultaneously through the Ethernet Port.

Supported connections:

- EZ Ethernet
- DirectLogic Ethernet
- Modbus TCP/IP
- Allen Bradley Ethernet I/P
- Allen Bradley DF1 Ethernet over TCP
- GE SRTP Ethernet
- Siemens Ethernet ISO over TCP

# **Compatibility and Protocols**

	Protocol (	Compatibility	
PLC Family	Model		Protocols
AVG / EZAutomation			EZPLC
AVO / LEAGIOIIIGGOT		EZ Ethernet	
	MicroLogix 1000/1100/12	DH485/AIC/AIC+	
	5/01/02/03, PLC5 MicroLogix 1000, 1100, 12		
	SLC 500, 5-/03/04/05	DF1 Half Duplex; DF1 Full Duplex	
	ControlLogix™, CompactL		
	PLC-5	DF1 Full Duplex	
Allen-Bradley	ControlLogix, CompactLog	DF1 Half Duplex; DF1 Full Duplex	
	ControlLogix, CompactLog	Ethernet/IP Server	
	ControlLogix, CompactLog MicroLogix 1100 & SLC 5	EtherNet/IP Client	
	Ethernet port		
	MicroLogix 1000, 1100, 12 & SLC 5-03/04/05, all via		
	Micrologix & SLC 500 PLC	DF1 over Ethernet	
	PLC5, SLC 5/04	Datahighway Plus (DH+)	
	PLC5, SLC 5/04	Remote I/O	
ABB	SattCon, 800xA		COMLI Driver
All Motion	EZ Stepper / Servo / I/O C	Control	EZ Stepper
Animatics	Smart Motor		Smart Motor
Applied Motion Aromat	Drives, Motors, Steppers		SCL series Mewtocol
BACnet			BACnet / IP Protocol
Baldor	Microflex, Flex, Flex+		Host Comms
Bristol Babcock	Control Wave		BSAP Native (Serial)
Control Techniques	VTC Series		Unidrive 2-wire, 4-wire (binary)
Control Technology Corp (CTC)	CTC 2600, CTC 2700 and	CTC Binary	
GE	90/30, 90/70, Micro 90, Ve	ersaMax Micro	Fanuc SNPX
	GE STRP		Ethernet
IDEC	MicroSmart Series		Computer Link
Keyence	EV Ossiss		CV 5000
	FX Series Q02, Q02H, Q06H, Q12H,	025H	Computer Link Q CPU
	Q. QnA Serial	QZJII	QnA Serial
Mitsubishi	Q, Qna Ethernet	QnA Ethernet	
	A Series PLCs	QII/ Ethernet	
	Mitsubishi CC link		
	Melsec FX		
Omron	C200 Adapter, C500	Fth t	Host Link Adapter
Modicon	CJ1/CS1 Serial, CJ1/CS1 984 CPU, Quantum 113 C	FINS Modbus RTU	
	Modbus TCP/IP devices	Modbus TCP/IP	
		DeviceNet	
		Modus RTU	
			Modbus Plus (Industrial Network)
	07 000 ODLL DO 405 0 .	- I	Uni-Telway
Siemens	S7-200 CPU, RS-485 Seria S7-200 CPU, S7-300 CPU		PPI Ethernet ISO over TCP
	31-200 CPU. 31-300 CPU	. Luieniei	ProfiNet
		Profibus	
Square D	300 Series CPU, 400 Series CPU		Square D Sy_Max
Texas Instruments	TI 505, TI545-1102, TI545-1104		TI 5x5 Series
Direct LOGIC	DL05/DL06, DL105, DL205, DL305, DL405	Serial	K-Sequence, Direct NET
		Ethernet w/ H2-ECOM/H2- ECOM100 module	Modbus (Koyo addressing)  Direct LOGIC Ethernet
Yaskawa	MP2000 Series, Drives		Memobus Native Addressing Memobus RTU
	Productivity3000 PACs, C		
	1 TOUGOTIVITY SOUU PAGS, C		
	Entivity Think & Do	Modbus RTU	
Automation Direct	,	Modbus TCP/IP	
Automation Direct	Direct Logic PLCs	DirectNet, ADC K-Sequence, ECOM Ethernet	
	Do-More PLC	Do More Serial	
	25 111010 1 20	Do More Ethernet	

Cable Description	Cable Part Number	Price				
EZ Automation						
EZPLC	EZ-CBL	\$20				
Direct Logics (Automation Direct)						
Productivity3000 Automation Direct CLICK, Direct LOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2- WinPLC	EZ-2CBL	\$20				
Direct LOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260	EZ-2CBL-1	\$20				
Direct LOGIC PLC RJ-11 port, D3-340	EZ-3CBL	\$20				
Direct LOGIC DL405 PLC 15-pin D-sub port, DL405	EZ-4CBL-1	\$20				
Direct LOGIC PLC 25-pin D-sub DCU and all DCMs	EZ-4CBL-2	\$20				
Allen Bradley						
Allen-Bradley MicroLogix 1000	EZ-MLOGIX-CBL	\$25				
Allen-Bradley SLC 5-03/04/05 FlexLogix, DF1 port	EZ-SLC-232-CBL	\$20				
Allen-Bradley PLC-5 DF1 port	EZ-PLC5-232-CBL	\$20				
Allen-Bradley SLC 500 DH485 port	EZ-DH485-CBL	\$22				
GE	T	ı				
GE 90/30, 90/70, Micro 90, 15-pin D-sub port	EZ-90-30-CBL	\$20				
Mitsubishi		T				
MITSUBISHI FX Series 25-pin port	EZ-MITSU-CBL	\$20				
MITSUBISHI FX Series 8-pin mini-DIN	EZ-MITSU-CBL-1	\$20				
Omron OMRON Host Link C200 Adapter, C500 25-pin D-shell Aromat	EZ-OMRON-CBL	\$20				
AROMAT Mewtocol 5-pin, mini-DIN male	EZ-ARCOL-CBL	\$20				
Modbus Modicon MicroPLC (RJ45		I				
connector)	EZ-MODRJ-CBL	\$20				
Modbus RTU 9-pin D-Sub Port	EZ-MODRTU-CBL	\$20				
Uni-Telway 8-pin mini-DIN connector	EZ-MODUNI-CBL	\$20				
Siemens						
SIEMENS S7200 9-pin D-shell male connector	EZ-S7200-CBL	\$20				
SIEMENS S7 PPI 9-pin D-shell connector	EZ-S7MPI-CBL	\$20				
Texas Instruments		1.				
Texas Instruments TI 505 Texas Instruments TI 545-1102	EZ-TX505-CBL	\$20				
9-pin D-shell	EZ-TX545-CBL	\$20				
Texas Instruments TI 545-1104 9-pin D-shell	EZ-TX545CBL1	\$20				
Square D						
Square D Symax, 9-pin	EZ-SYMAX-CBL	\$20				
Yaskawa YASKAWA Memobus Native Addressing / Memobus RTU	EZ-YASKAWA-CBL	\$20				
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