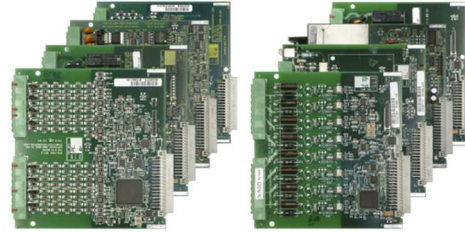# SELect I/O Cards

Part Numbers for the SEL-710-5

Ordering Information

SCHWEITZER ENGINEERING LABORATORIES

2350 NE Hopkins Court • Pullman, WA 99163-5603 USA
Phone: +1.509.332.1890 • Fax: +1.509.332.7990
Internet: www.selinc.com • E-mail: info@selinc.com

Serial Communication Card (SELect EIA-232/485)

	Part Number
Serial Communication	9717LA0_ [1]
Note: Slot C option only.	

3 Digital Input / 4 Digital Output / 1 4–20 mA Analog Output (SELect 3 DI / 4 DO / 1 AO)

Digital Input Voltage, Output Type	Part Number
125 Vdc/Vac DI, Electromechanical DO	9717LBA_ [1]
24 Vdc/Vac DI, Electromechanical DO	9717LBB_ [1]
48 Vdc/Vac DI, Electromechanical DO	9717LBC_ [1]
110 Vdc/Vac DI, Electromechanical DO	9717LBD_ [1]
220 Vdc/Vac DI, Electromechanical DO	9717LBG_ [1]
250 Vdc/Vac DI, Electromechanical DO	9717LBH_ [1]
Note: Only one (1) – 3 DI / 4 DO / 1 AO card per chassis. Note: Unless otherwise specified, all digital outputs are Form A. Note: Slots C, D, or E.	

[1] Use 'O' for 'Without Conformal Coating' and '1' for 'With Conformal Coating' in the part number. Conformal Coating is an additional cost option.

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4 Digital Input / 4 Digital Output (SELect 4 DI / 4 DO)

Digital Input Voltage, Output Type	Part Number
125 Vdc/Vac DI, Electromechanical DO	9717L1A_ [1]
24 Vdc/Vac DI, Electromechanical DO	9717L1B_ [1]
48 Vdc/Vac DI, Electromechanical DO	9717L1C_ [1]
110 Vdc/Vac DI, Electromechanical DO	9717L1D_ [1]
220 Vdc/Vac DI, Electromechanical DO	9717L1G_ [1]
250 Vdc/Vac DI, Electromechanical DO	9717L1H_ [1]
125 Vdc/Vac DI, Fast High Current Interrupting DO	9717LCA_ [1]
24 Vdc/Vac DI, Fast High Current Interrupting DO	9717LCB_ [1]
48 Vdc/Vac DI, Fast High Current Interrupting DO	9717LCC_ [1]
110 Vdc/Vac DI, Fast High Current Interrupting DO	9717LCD_ [1]
220 Vdc/Vac DI, Fast High Current Interrupting DO	9717LCG_ [1]
250 Vdc/Vac DI, Fast High Current Interrupting DO	9717LCH_ [1]
Note: Unless otherwise specified, all digital outputs are Form A. Note: Slots C, D, or E.	

4 Digital Input / 3 Digital Output (2 Form C and 1 Form B) (SELect 4 DI / 3 DO)

Digital Input Voltage, Output Type	Part Number
125 Vdc/Vac DI, Electromechanical DO	9717LDA_ [1]
24 Vdc/Vac DI, Electromechanical DO	9717LDB_ [1]
48 Vdc/Vac DI, Electromechanical DO	9717LDC_ [1]
110 Vdc/Vac DI, Electromechanical DO	9717LDD_ [1]
220 Vdc/Vac DI, Electromechanical DO	9717LDG_ [1]
250 Vdc/Vac DI, Electromechanical DO	9717LDH_ [1]
Note: Slots C, D, or E.	

8 Digital Output (SELect 8 DO)

Output Type	Part Number
8 Form A Electromechanical DO	9745L2A_ [1]
8 Form B Electromechanical DO	9745L2B_ [1]
6 Form A and 2 Form B Electromechanical DO	9745L2C_ [1]
6 Form B and 2 Form A Electromechanical DO	9745L2D_ [1]
4 Form A and 4 Form B Electromechanical DO	9745L2G_ [1]
Note: Slots C, D, or E.	

(1) Use 'O' for 'Without Conformal Coating' and '1' for 'With Conformal Coating' in the part number. Conformal Coating is an additional cost option.

8 Digital Input (SELect 8 DI)

Digital Input Voltage	Part Number
125 Vdc/Vac	9717L3A_ [1]
24 Vdc/Vac	9717L3B_ [1]
48 Vdc/Vac	9717L3C_ [1]
110 Vdc/Vac	9717L3D_ [1]
220 Vdc/Vac	9717L3G_ [1]
250 Vdc/Vac	9717L3H_ [1]
Note: Slots C, D, or E.	

14 Digital Input (SELect 14 DI)

Digital Input Voltage	Part Number
125 Vdc/Vac	9717L4A_ [1]
24 Vdc/Vac	9717L4B_ [1]
48 Vdc/Vac	9717L4C_ [1]
110 Vdc/Vac	9717L4D_ [1]
220 Vdc/Vac	9717L4G_ [1]
250 Vdc/Vac	9717L4H_ [1]
Note: Slots C, D, or E. **Note: Requires R200 or higher firmware.**	

8 Analog Input (SELect 8 AI)

Input/Output Type	Part Number
±20 mA or ±10 V, Jumper Selectable	9717L5X_ [1]
Note: Slots C, D, or E.	

4 Analog Input / 4 Analog Output (SELect 4 AI / 4 AO)

Input Type	Part Number
±20 mA or ±10 V, Jumper Selectable	9717L6X_ [1]
Note: Only one 4 AI / 4 AO card per chassis. Note: Slots C, D, or E.	

10 RTD Input Card (SELect 10 RTD)

Input Type	Part Number
RTD Analog Input	9717L9X_ [1]
Note: These card kits do not contain a rear panel. Please order a rear panel from the table at the bottom of this document. Note: Slot D option only.	

(1) Use 'O' for 'Without Conformal Coating' and '1' for 'With Conformal Coating' in the part number. Conformal Coating is an additional cost option.

4 Arc-Flash Detection Inputs and 3 AC Current Inputs (Motor Differential) (SELect 4 AFDI / 3 DIFF ACI)

Input Type	Part Number
Arc-Flash Detections Inputs, Currents: 1A and 5A (Motor Differential)	9717L74_[1]
Note: These card kits do not contain a rear panel. Please order a rear panel from the table at the bottom of this document. Note: For Arc-Flash Detection Point Sensors, Fiber Sensors, or Cable Accessories, see SEL-C804 Multimode Fiber-Optic Arc-Flash Detection (AFD) Sensors. Note: Slot E option only.	

3 Synchronous Motor Inputs and 3 AC Current Inputs (Motor Differential) (SELect SYNCH / 3 DIFF ACI)

Input Type	Part Number
Synchronous Motor Inputs, Currents: 1A and 5A (Motor Differential)	9717L75_[1]
Note: These card kits do not contain a rear panel. Please order a rear panel from the table at the bottom of this document. Note: Slot E option only.	

8 Arc-Flash Detection Inputs (SELect 8 AFDI)

Input Type	Part Number
8 Arc-Flash Detections Inputs	9717L76_[1]
Note: These card kits do not contain a rear panel. Please order a rear panel from the table at the bottom of this document. Note: For Arc-Flash Detection Point Sensors, Fiber Sensors, or Cable Accessories, see SEL-C804 Multimode Fiber-Optic Arc-Flash Detection (AFD) Sensors. Note: Slot E option only.	

3-Phase AC Current Input / Neutral AC Current Input / 3-Phase AC Voltage (300 Vac) (SELect 4 ACI / 3 AVI)

Phase Current, Neutral Current	Part Number
1 Amp Phase, 1 Amp Neutral	9717L81_[1]
1 Amp Phase, 5 Amp Neutral	9717L82_[1]
1 Amp Phase, 2.5 mA High Sense Neutral	9717L83_[1]
5 Amp Phase, 5 Amp Neutral	9717L85_[1]
5 Amp Phase, 1 Amp Neutral	9717L86_[1]
5 Amp Phase, 2.5 mA High Sense Neutral	9717L87_[1]
Note: Slot Z option only.	

Power Supply 125/250 Vdc, 120/240 Vac (SELect PSIO / 2 DI / 3 DO) for Relay With 2x16 LCD Display

Digital Input Voltage	Part Number
125 Vdc/Vac Digital Input	9722L1A_[1]
24 Vdc/Vac Digital Input	9722L1B_[1]
48 Vdc/Vac Digital Input	9722L1C_[1]
110 Vdc/Vac Digital Input	9722L1D_[1]
220 Vdc/Vac Digital Input	9722L1G_[1]
250 Vdc/Vac Digital Input	9722L1H_[1]
Note: Slot A option only.	

(1) Use 'O' for 'Without Conformal Coating' and '1' for 'With Conformal Coating' in the part number. Conformal Coating is an additional cost option.

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Power Supply 125/250 Vdc, 120/240 Vac (SELect PSIO / 2 DI / 3 DO) for Relay With 5-inch Color Touchscreen Display

Digital Input Voltage	Part Number
125 Vdc/Vac Digital Input	9717L1AAB_[1]
24 Vdc/Vac Digital Input	9717L1BAB_[1]
48 Vdc/Vac Digital Input	9717L1CAB_[1]
110 Vdc/Vac Digital Input	9717L1DAB_[1]
220 Vdc/Vac Digital Input	9717L1GAB_[1]
250 Vdc/Vac Digital Input	9717L1HAB_[1]
Note: Slot A option only.	

Power Supply 24/48 Vdc (SELect PSIO / 2 DI / 3 DO) for Relay With 2x16 LCD Display

Digital Input Voltage	Part Number
125 Vdc/Vac Digital Input	9722L2A_[1]
24 Vdc/Vac Digital Input	9722L2B_[1]
48 Vdc/Vac Digital Input	9722L2C_[1]
110 Vdc/Vac Digital Input	9722L2D_[1]
220 Vdc/Vac Digital Input	9722L2G_[1]
250 Vdc/Vac Digital Input	9722L2H_[1]
Note: Slot A option only.	

Power Supply 24/48 Vdc (SELect PSIO / 2 DI / 3 DO) for Relay With 5-inch Color Touchscreen Display

Digital Input Voltage	Part Number
125 Vdc/Vac Digital Input	9717L2AAB_[1]
24 Vdc/Vac Digital Input	9717L2BAB_[1]
48 Vdc/Vac Digital Input	9717L2CAB_[1]
110 Vdc/Vac Digital Input	9717L2DAB_[1]
220 Vdc/Vac Digital Input	9717L2GAB_[1]
250 Vdc/Vac Digital Input	9717L2HAB_[1]
Note: Slot A option only.	

(1) Use 'O' for 'Without Conformal Coating' and '1' for 'With Conformal Coating' in the part number. Conformal Coating is an additional cost option.

Processor Board (SELect CPU / COM)

Input Type	Rear Port Type	Ethernet Type	Protocol Type	Part Number
IRIG-B	EIA-232	None	Standard	9717L000_ (1)
IRIG-B	EIA-232	None	Standard, DNP3	9717L002_ (1)
IRIG-B	EIA-232	None	Standard, IEC 60870	9717L004_ (1)
IRIG-B	EIA-232	None	Standard, DNP3, IEC 60870	9717L006_ (1)
IRIG-B	EIA-485	None	Standard	9717L010_ (1)
IRIG-B	EIA-485	None	Standard, DNP3	9717L012_ (1)
IRIG-B	EIA-485	None	Standard, IEC 60870	9717L014_ (1)
IRIG-B	EIA-485	None	Standard, DNP3, IEC 60870	9717L016_ (1)
IRIG-B	EIA-232	Single 10/100 Base-T (Copper)	Standard	9717L020_ (1)
IRIG-B	EIA-232	Single 10/100 Base-T (Copper)	Standard, IEC 61850	9717L021_ (1)
IRIG-B	EIA-232	Single 10/100 Base-T (Copper)	Standard, DNP3	9717L022_ (1)
IRIG-B	EIA-232	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 61850	9717L023_ (1)
IRIG-B	EIA-232	Single 10/100 Base-T (Copper)	Standard, IEC 60870	9717L024_ (1)
IRIG-B	EIA-232	Single 10/100 Base-T (Copper)	Standard, IEC 60870, IEC 61850	9717L025_ (1)
IRIG-B	EIA-232	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 60870	9717L026_ (1)
IRIG-B	EIA-232	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 60870, IEC 61850	9717L027_ (1)
IRIG-B	EIA-485	Single 10/100 Base-T (Copper)	Standard	9717L030_ (1)
IRIG-B	EIA-485	Single 10/100 Base-T (Copper)	Standard, IEC 61850	9717L031_ (1)
IRIG-B	EIA-485	Single 10/100 Base-T (Copper)	Standard, DNP3	9717L032_ (1)
IRIG-B	EIA-485	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 61850	9717L033_ (1)
IRIG-B	EIA-485	Single 10/100 Base-T (Copper)	Standard, IEC 60870	9717L034_ (1)
IRIG-B	EIA-485	Single 10/100 Base-T (Copper)	Standard, IEC 60870, IEC 61850	9717L035_ (1)
IRIG-B	EIA-485	SIngle 10/100 Base-T (Copper)	Standard, DNP3, IEC 60870	9717L036_ (1)
IRIG-B	EIA-485	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 60870, IEC 61850	9717L037_ (1)
IRIG-B	EIA-232	Single 100Base-FX MM LC (Fiber)	Standard	9717L040_ (1)
IRIG-B	EIA-232	Single 100Base-FX MM LC (Fiber)	Standard, IEC 61850	9717L041_ (1)
IRIG-B	EIA-232	Single 100Base-FX MM LC (Fiber)	Standard, DNP3	9717L042_ (1)
IRIG-B	EIA-232	Single 100Base-FX MM LC (Fiber)	Standard, DNP3, IEC 61850	9717L043_ (1)
IRIG-B	EIA-232	Single 100Base-FX MM LC (Fiber)	Standard, IEC 60870	9717L044_ (1)
IRIG-B	EIA-232	Single 100Base-FX MM LC (Fiber)	Standard, IEC 60870, IEC 61850	9717L045_ (1)
IRIG-B	EIA-232	Single 100Base-FX MM LC (Fiber)	Standard DNP3, IEC 60870	9717L046_ (1)
IRIG-B	EIA-232	Single 100Base-FX MM LC (Fiber)	Standard, DNP3, IEC 60870, IEC 61850	9717L047_ (1)
IRIG-B	EIA-232	Dual 10/100 Base-T (Copper)	Standard	9717L060_ (1)
IRIG-B	EIA-232	Dual 10/100 Base-T (Copper)	Standard, IEC 61850	9717L061_ (1)
IRIG-B	EIA-232	Dual 10/100 Base-T (Copper)	Standard, DNP3	9717L062_ (1)
IRIG-B	EIA-232	Dual 10/100 Base-T (Copper)	Standard, DNP3, IEC 61850	9717L063_ (1)

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Processor Board (SELect CPU / COM) Continued

IRIG-B	EIA-232	Dual 10/100 Base-T (Copper)	Standard, IEC 60870	9717L064_(1)
IRIG-B	EIA-232	Dual 10/100 Base-T (Copper)	Standard, IEC 60870, IEC 61850	9717L065_(1)
IRIG-B	EIA-232	Dual 10/100 Base-T (Copper)	Standard, DNP3, IEC 60870	9717L066_(1)
IRIG-B	EIA-232	Dual 10/100 Base-T (Copper)	Standard, DNP3, IEC 60870, IEC 61850	9717L067_(1)
IRIG-B	EIA-232	Dual 100Base-FX MM LC (Fiber)	Standard	9717L080_(1)
IRIG-B	EIA-232	Dual 100Base-FX MM LC (Fiber)	Standard, IEC 61850	9717L081_(1)
IRIG-B	EIA-232	Dual 100Base-FX MM LC (Fiber)	Standard, DNP3	9717L082_(1)
IRIG-B	EIA-232	Dual 100Base-FX MM LC (Fiber)	Standard, DNP3, IEC 61850	9717L083_(1)
IRIG-B	EIA-232	Dual 100Base-FX MM LC (Fiber)	Standard, IEC 60870	9717L084_(1)
IRIG-B	EIA-232	Dual 100Base-FX MM LC (Fiber)	Standard, IEC 60870, IEC 61850	9717L085_(1)
IRIG-B	EIA-232	Dual 100Base-FX MM LC (Fiber)	Standard, DNP3, IEC 60870	9717L086_(1)
IRIG-B	EIA-232	Dual 100Base-FX MM LC (Fiber)	Standard, DNP3, IEC 60870, IEC 61850	9717L087_(1)
PTC	EIA-232	None	Standard	9717L100_(1)
PTC	EIA-232	None	Standard, DNP3	9717L102_(1)
PTC	EIA-232	None	Standard, IEC 60870	9717L104_(1)
PTC	EIA-232	None	Standard, DNP3, IEC 60870	9717L106_(1)
PTC	EIA-485	None	Standard	9717L110_(1)
PTC	EIA-485	None	Standard, DNP3	9717L112_(1)
PTC	EIA-485	None	Standard, IEC 60870	9717L114_(1)
PTC	EIA-485	None	Standard, DNP3, IEC 60870	9717L116_(1)
PTC	EIA-232	Single 10/100 Base-T (Copper)	Standard	9717L120_(1)
PTC	EIA-232	Single 10/100 Base-T (Copper)	Standard, IEC 61850	9717L121_(1)
PTC	EIA-232	Single 10/100 Base-T (Copper)	Standard, DNP3	9717L122_(1)
PTC	EIA-232	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 61850	9717L123_(1)
PTC	EIA-232	Single 10/100 Base-T (Copper)	Standard, IEC 60870	9717L124_(1)
PTC	EIA-232	Single 10/100 Base-T (Copper)	Standard, IEC 60870, IEC 61850	9717L125_(1)
PTC	EIA-232	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 60870	9717L126_(1)
PTC	EIA-232	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 60870, IEC 61850	9717L127_(1)
PTC	EIA-485	Single 10/100 Base-T (Copper)	Standard	9717L130_(1)
PTC	EIA-485	Single 10/100 Base-T (Copper)	Standard, IEC 61850	9717L131_(1)
PTC	EIA-485	Single 10/100 Base-T (Copper)	Standard, DNP3	9717L132_(1)
PTC	EIA-485	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 61850	9717L133_(1)
PTC	EIA-485	Single 10/100 Base-T (Copper)	Standard, IEC 60870	9717L134_(1)
PTC	EIA-485	Single 10/100 Base-T (Copper)	Standard, IEC 60870, IEC 61850	9717L135_(1)
PTC	EIA-485	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 60870	9717L136_(1)
PTC	EIA-485	Single 10/100 Base-T (Copper)	Standard, DNP3, IEC 60870, IEC 61850	9717L137_(1)
Note: These card kits do not contain a rear panel. Please order a rear panel from the table at the bottom of this document.				

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SEL-710-5 Rear Panels

	Card Slot Options			
Slot D Option	Slot E Option		Slot B (Mainboard) Options	Part Number
RTD	Empty or Standard I/O	EIA-232 Rear	None/Single Copper Ethernet	9777L201
RTD	Empty or Standard I/O	EIA-485 Rear	None/Single Copper Ethernet	9777L202
RTD	Empty or Standard I/O	EIA-232 Rear	Dual Copper Ethernet	9777L203
RTD	Empty or Standard I/O	EIA-232 Rear	Single/Dual Fiber Ethernet	9777L204
RTD	4AFDI/3DIFFACI	EIA-232 Rear	None/Single Copper Ethernet	9777L205
RTD	4AFDI/3DIFFACI	EIA-485 Rear	None/Single Copper Ethernet	9777L206
RTD	4AFDI/3DIFFACI	EIA-232 Rear	Dual Copper Ethernet	9777L207
RTD	4AFDI/3DIFFACI	EIA-232 Rear	Single/Dual Fiber Ethernet	9777L208
RTD	SYNCH/3DIFFACI	EIA-232 Rear	None/Single Copper Ethernet	9777L209
RTD	SYNCH/3DIFFACI	EIA-485 Rear	None/Single Copper Ethernet	9777L210
RTD	SYNCH/3DIFFACI	EIA-232 Rear	Dual Copper Ethernet	9777L211
RTD	SYNCH/3DIFFACI	EIA-232 Rear	Single/Dual Fiber Ethernet	9777L212
RTD	8AFDI	EIA-232 Rear	None/Single Copper Ethernet	9777L213
RTD	8AFDI	EIA-485 Rear	None/Single Copper Ethernet	9777L214
RTD	8AFDI	EIA-232 Rear	Dual Copper Ethernet	9777L215
RTD	8AFDI	EIA-232 Rear	Single/Dual Fiber Ethernet	9777L216
Empty or Standard I/O	Empty or Standard I/O	EIA-232 Rear	None/Single Copper Ethernet	9777L217
Empty or Standard I/O	Empty or Standard I/O	EIA-485 Rear	None/Single Copper Ethernet	9777L218
Empty or Standard I/O	Empty or Standard I/O	EIA-232 Rear	Dual Copper Ethernet	9777L219
Empty or Standard I/O	Empty or Standard I/O	EIA-232 Rear	Single/Dual Fiber Ethernet	9777L220
Empty or Standard I/O	4AFDI/3DIFFACI	EIA-232 Rear	None/Single Copper Ethernet	9777L221
Empty or Standard I/O	4AFDI/3DIFFACI	EIA-485 Rear	None/Single Copper Ethernet	9777L222
Empty or Standard I/O	4AFDI/3DIFFACI	EIA-232 Rear	Dual Copper Ethernet	9777L223
Empty or Standard I/O	4AFDI/3DIFFACI	EIA-232 Rear	Single/Dual Fiber Ethernet	9777L224
Empty or Standard I/O	SYNCH/3DIFFACI	EIA-232 Rear	None/Single Copper Ethernet	9777L225
Empty or Standard I/O	SYNCH/3DIFFACI	EIA-485 Rear	None/Single Copper Ethernet	9777L226
Empty or Standard I/O	SYNCH/3DIFFACI	EIA-232 Rear	Dual Copper Ethernet	9777L227
Empty or Standard I/O	SYNCH/3DIFFACI	EIA-232 Rear	Single/Dual Fiber Ethernet	9777L228
Empty or Standard I/O	8AFDI	EIA-232 Rear	None/Single Copper Ethernet	9777L229
Empty or Standard I/O	8AFDI	EIA-485 Rear	None/Single Copper Ethernet	9777L230
Empty or Standard I/O	8AFDI	EIA-232 Rear	Dual Copper Ethernet	9777L231
Empty or Standard I/O	8AFDI	EIA-232 Rear	Single/Dual Fiber Ethernet	9777L232

(1) Use '0' for 'Without Conformal Coating' and '1' for 'With Conformal Coating' in the part number. Conformal Coating is an additional cost option.

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Reference Ordering Information for other product MOTs:

Work Instruction	Product SELect I/O Cards
WI-5932	SEL-710, SEL-749M, SEL-751A, SEL-787, SEL-2410, SEL-2411, and SEL-2414
WI-16209	SEL-700G
WI-12174	SEL-787-2, -3, -4
WI-12625	SEL-751

(1) Use 'O' for 'Without Conformal Coating' and '1' for 'With Conformal Coating' in the part number. Conformal Coating is an additional cost option.

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