



Industrial Control Links Modulus Selection Guide

Terminal Block Options:

No Plugs	Screw Plugs	Lever Plugs
80-XXXX	81-XXXX	82-XXXX

Modulus Selection Guide

Model#	DI		DO		AI			AO	Serial ²	Wireless Option
	opto iso	high-speed	relay	FET	AI	UI	IAI			
DIGITAL I/O [12/24V DIs]										
8x-1002	24									
8x-1004	12		12							
8x-1006	16		8							
8x-1008	20		4							
DIGITAL I/O [120/240V DIs]										
8x-1102	24									
8x-1104	12		12							
8x-1106	16		8							
8x-1108	20		4							

Model#	DI		DO		AI			AO	Serial ²	Wireless Option
	opto iso	high-speed	relay	FET	AI	UI	IAI			
COMBO I/O [12/24V DIs]										
8x-3002	8		4		8				1	
8x-3003	8		4		8	4 ¹			1	
8x-3004	8		4			8			1	
8x-3005	8		4			8+4 ¹			1	
8x-3006	8		4				4		1	
8x-3007	8		4			4 ¹	4		1	
8x-3010	8		4					4	1	
8x-3012	8		4		8			4	1	
8x-3014	8		4			8		4	1	
8x-3016	8		4				4	4	1	
COMBO I/O [120/240V DIs]										
8x-3102	8		4		8				1	
8x-3103	8		4		8	4 ¹			1	
8x-3104	8		4			8			1	
8x-3105	8		4			8 + 4 ¹			1	
8x-3106	8		4				4		1	
8x-3107	8		4			4 ¹	4		1	
8x-3112	8		4		8			4	1	
8x-3114	8		4			8		4	1	
8x-3116	8		4				4	4	1	



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	opto iso	high-speed	relay	FET	AI	UI	IAI			
COMMUNICATIONS - 2110 (2 DI/PI, 1 DO, 1 AI 20mA/V)										
8x-5000		2		1	1				2	
8x-5001		2		1	1				1	1/4W 900MHz Mesh Radio
8x-5002		2		1	1				1	1/4 W 900MHz Radio
8x-5003		2		1	1				1	1 W 900MHz Radio (Xtend compatible)
8x-5004		2		1	1				1	1 W 900MHz Radio (SX - for new designs)
8x-5011		2		1	1				1	Verizon LTE Cellular
8x-5012		2		1	1				1	AT&T/Int'l LTE Cellular
COMMUNICATIONS - 2110 (2 DI/PI, 1 DO, 1 AI 20mA/V) with MP3/WAV Audio Playback (PA or voice radio)										
8x-5020		2		1	1				2	1
8x-5021		2		1	1				1	1/4W 900MHz Mesh Radio
8x-5022		2		1	1				1	1/4 W 900MHz Radio
8x-5023		2		1	1				1	1 W 900MHz Radio (Xtend compatible)
8x-5024		2		1	1				1	1 W 900MHz Radio (SX - for new designs)
8x-5031		2		1	1				1	Verizon LTE Cellular
8x-5032		2		1	1				1	AT&T/Int'l LTE Cellular

Model#	DI		DO		AI			AO	Serial ²	Wireless Option
	opto iso	high-speed	relay	FET	AI	UI	IAI			
COMMUNICATIONS - 1120MA (1 DI/PI, 1 DO, 2 AI - 20mA)										
8x-5100		1		1	2				2	
8x-5101		1		1	2				1	1/4W 900MHz Mesh Radio
8x-5102		1		1	2				1	1/4 W 900MHz Radio
8x-5103		1		1	2				1	1 W 900MHz Radio (Xtend compatible)
8x-5104		1		1	2				1	1 W 900MHz Radio (SX - for new designs)
8x-5111		1		1	2				1	Verizon LTE Cellular
8x-5112		1		1	2				1	AT&T/Int'l LTE Cellular
COMMUNICATIONS - 1120MA (1 DI/PI, 1 DO, 2 AI - 20mA) with MP3 Audio Playback (PA or voice radio)										
8x-5120		1		1	2				2	2
8x-5121		1		1	2				1	1/4W 900MHz Mesh Radio
8x-5122		1		1	2				1	1/4 W 900MHz Radio
8x-5123		1		1	2				1	1 W 900MHz Radio (Xtend compatible)
8x-5124		1		1	2				1	1 W 900MHz Radio (SX - for new designs)
8x-5131		1		1	2				1	Verizon LTE Cellular
8x-5132		1		1	2				1	AT&T/Int'l LTE Cellular
COMMUNICATIONS - 1120MA (1 DI/PI, 1 DO, 2 AI - 20mA) + additional 16DI (Opto), 5DO (Relay), 2AI (20mA), 4AO (20mA) Purchase relays separately (p/n 80-1001)										
8x-5600	16	1	5	1	4			4	2	
8x-5601	16	1	5	1	4			4	1	1/4W 900MHz Mesh Radio
8x-5602	16	1	5	1	4			4	1	1/4 W 900MHz Radio
8x-5603	16	1	5	1	4			4	1	1 W 900MHz Radio (Xtend compatible)
8x-5604	16	1	5	1	4			4	1	1 W 900MHz Radio (SX - for new designs)
8x-5611	16	1	5	1	4			4	1	Verizon LTE Cellular
8x-5612	16	1	5	1	4			4	1	AT&T/Int'l LTE Cellular



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Model#	DI		DO		AI			AO	Serial ²	Wireless Option
	opto	iso high-speed	relay	FET	AI	UI	IAI			
COMMUNICATIONS - 1120V (1 DI/PI, 1 DO, 2 AI - V)										
8x-5200		1		1	2				2	
8x-5201		1		1	2				1	1/4W 900MHz Mesh Radio
8x-5202		1		1	2				1	1/4 W 900MHz Radio
8x-5203		1		1	2				1	1 W 900MHz Radio (Xtend compatible)
8x-5204		1		1	2				1	1 W 900MHz Radio (SX - for new designs)
8x-5211		1		1	2				1	Verizon LTE Cellular
8x-5212		1		1	2				1	AT&T/Int'l LTE Cellular
COMMUNICATIONS - 1120V (1 DI/PI, 1 DO, 2 AI - V) with MP3 Audio Playback (PA or voice radio)										
8x-5220		1		1	2				2	1
8x-5221		1		1	2				1	1
8x-5222		1		1	2				1	1
8x-5223		1		1	2				1	1
8x-5224		1		1	2				1	1
8x-5231		1		1	2				1	1
8x-5232		1		1	2				1	1
COMMUNICATIONS - 1120V (1 DI/PI, 1 DO, 2 AI - V) + additional 16DI (Opto), 5DO (Relay), 2AI (20mA), 4AO (20mA) Purchase relays separately (p/n 80-1001)										
8x-5700	16	1		5	1	4			4	2
8x-5701	16	1		5	1	4			4	1
8x-5702	16	1		5	1	4			4	1
8x-5703	16	1		5	1	4			4	1
8x-5704	16	1		5	1	4			4	1
8x-5711	16	1		5	1	4			4	1
8x-5712	16	1		5	1	4			4	1
COMMUNICATIONS - 1120R (1 DI/PI, 1 DO, 2 AI - ohms/temp)										
8x-5300		1		1	2				2	
8x-5301		1		1	2				1	1/4W 900MHz Mesh Radio
8x-5302		1		1	2				1	1/4 W 900MHz Radio
8x-5303		1		1	2				1	1 W 900MHz Radio (Xtend compatible)
8x-5304		1		1	2				1	1 W 900MHz Radio (SX - for new designs)
8x-5311		1		1	2				1	Verizon LTE Cellular
8x-5312		1		1	2				1	AT&T/Int'l LTE Cellular
COMMUNICATIONS - 1120R (1 DI/PI, 1 DO, 2 AI - ohms/temp) with MP3 Audio Playback (PA or voice radio)										
8x-5320		1		1	2				2	1
8x-5321		1		1	2				1	1
8x-5322		1		1	2				1	1
8x-5323		1		1	2				1	1
8x-5324		1		1	2				1	1
8x-5331		1		1	2				1	1
8x-5332		1		1	2				1	1
COMMUNICATIONS - 1120R (1 DI/PI, 1 DO, 2 AI - ohms/temp) + opt. additional 16DI (Opto), 5DO (Relay), 2AI (20mA), 4AO (20mA) Purchase relays separately (p/n 80-1001)										
8x-5800	16	1		5	1	4			4	2
8x-5801	16	1		5	1	4			4	1
8x-5802	16	1		5	1	4			4	1
8x-5803	16	1		5	1	4			4	1
8x-5804	16	1		5	1	4			4	1
8x-5811	16	1		5	1	4			4	1
8x-5812	16	1		5	1	4			4	1



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ADVANCED COMMUNICATIONS (4 DI/PI, 8 AI/UI + optional 4UI or 4AO) except 8x-7000 which is serial only - no I/O										
8x-7001		4							3	
8x-7002		4			8				3	
8x-7003		4			8	4 ¹			3	
8x-7004		4				8			3	
8x-7005		4				8 + 4 ¹			3	
8x-7012		4			8		4		3	
8x-7014		4				8	4		3	
ADVANCED COMMUNICATIONS EVEREST CONTROLLER (4 DI/PI, 8 AI/UI + optional 4AO) w/Everest terminal block configuration (includes I/O panel and cables)										
8x-7092	20	4	12		8				3	
8x-7094	20	4	12			8			3	
8x-7096	20	4	12		8		4		3	
8x-7098	20	4	12			8	4		3	
ADVANCED COMMUNICATIONS HARDWARE and SOFTWARE accessories and options										
80-7801	External 56K Dialup modem (uses USB port on module) - for voice alarm dialout and remote access over standard telephone lines (Coming by year-end 2018!)									
80-7901	Preloaded e-mail/text message over Ethernet alarm dialer software - user web page configurable contact list and alarm verbiage - up to 100 alarms									
80-7902	Preloaded e-mail/text message over Ethernet alarm dialer software - user web page configurable contact list and alarm verbiage - up to 1000 alarms									
POWER SUPPLIES with REDUNDANCY SUPPORT										
8x-9001										+12V, 60W
8x-9002										+24V, 60W

- Notes
- 1 Add-on UIs do not support 3-wire RTDs (all other UIs do)
 - 2 Serial ports in addition to Bus Port which every module has

ACCESSORIES	
81-0001	Right Bus Power - screw terminal block
81-0002	Left Bus Power - screw terminal block
82-0012	4-Channel Field Wiring Panel, with 12" cable (lever plug)
82-0024	4-Channel Field Wiring Panel, with 24" cable (lever plug)
82-0036	4-Channel Field Wiring Panel, with 36" cable (lever plug)
82-0112	4-Channel Field Wiring Panel for Modulus COMMUNICATIONS MODULE - 1120MA (loop powered devices) , with 12" cable (lever plug)
82-0124	4-Channel Field Wiring Panel for Modulus COMMUNICATIONS MODULE - 1120MA (loop powered devices) , with 24" cable (lever plug)
82-0136	4-Channel Field Wiring Panel for Modulus COMMUNICATIONS MODULE - 1120MA (loop powered devices) , with 36" cable (lever plug)
82-0212	12-Channel Field Wiring Panel, with 12" cable (lever plug)
82-0224	12-Channel Field Wiring Panel, with 24" cable (lever plug)
82-0236	12-Channel Field Wiring Panel, with 36" cable (lever plug)
80-0025	Field Wiring Panel Labels- 1.25"X.75" Weatherproof Polyester Labels for Laser Printer (25 sheets, 72/sheet)
80-0050	Field Wiring Panel Labels- 1.25"X.75" Weatherproof Polyester Labels for Laser Printer (50 sheets, 72/sheet)
80-0100	Field Wiring Panel Labels- 1.25"X.75" Weatherproof Polyester Labels for Laser Printer (100 sheets, 72/sheet)
80-1000	AC Snubber for inductive loads - required for all relay outputs
80-1001	5A Relay for Expanded I/O Communications modules Field Wiring Panel
81-0000	5 Position Screw Plug for comm ports on Combo and Comm' modules, Needed for modules utilizing wiring panels
81-00xx	5 Position Screw Plug to DB-9 Male RS-232 cable for radios and modems standard length is 12" (add \$5 per ft. for >12")
80-0316	16GB Micro SD Card - Industrial Temperature Range (-40C to +85C)