

**Master List of Catalog Numbers**

<b>Cat. No.</b>	<b>Description</b>	<b>Quantity Selected</b>
1764-MM2RTC	MicroLogix 1500 16 KB Memory Module with Real-Time Clock	
1764-M3	MicroLogix 1500 16 KB Memory Module	
1764-MM3RTC	MicroLogix 1500 16 KB Memory Module with Real-Time Clock	
1764-RTC	MicroLogix 1500 Real-Time Clock Module	
<b>1769 Compact I/O Components</b>		
1769-ADN	CompactLogix DeviceNet Adapter, series B	
1769-ASCII	Compact 2-channel ASCII Interface Module	
1769-BOOLEAN	Compact 24V I/O Boolean Control Module	
1769-CRL1	Compact I/O Right Bank-to-Left Bank 1-Foot Expansion Cable <sup>(1)</sup>	
1769-CRL3	Compact I/O Right Bank-to-Left Bank 3-Foot Expansion Cable <sup>(1)</sup>	
1769-CRR1	Compact I/O Right Bank-to-Right Bank 1-Foot Expansion Cable <sup>(1)</sup>	
1769-CRR3	Compact I/O Right Bank-to-Right Bank 3-Foot Expansion Cable <sup>(1)</sup>	
1769-ECL	Compact I/O Left End Cap	
1769-ECR	Compact I/O Right End Cap	
1769-HSC	Compact I/O High Speed Counter Module	
1769-IA16	Compact 120V AC Input Module	
1769-IA8I	Compact Individually Isolated 120V AC Input Module	
1769-IF4	Compact 1769-IF4 (series B or Later) Analog Input Module	
1769-IF4I	Compact 4-channel Isolated Analog Input Module	
1769-IF4XOF2	Compact 8-Bit Low Resolution Analog I/O Combination Module	
1769-IF4FXOF2F	Compact Combination Fast Analog I/O Module	
1769-IF8	Compact 8-channel Analog Input Module	
1769-IF16C	Compact High Density Analog Current Input Module	
1769-IF16V	Compact High Density Analog Voltage Input Module	
1769-IG16	Compact TTL Input Module	
1769-IM12	Compact 240V AC Input Module	
1769-IQ16	CompactLogix 24V DC 16-point Sink/Source Input Module	
1769-IQ16F	CompactLogix 24V DC 16-point High Speed Sink/Source Input Module	
1769-IQ32	CompactLogix 24V DC 32-point Sink/Source Input Module	
1769-IQ32T	Compact Current Sinking/Sourcing 24V DC Input Module	
1769-IQ6XOW4	Compact Combination 24V DC Sink/Source Input & AC/DC Relay Output Module	
1769-IR6	Compact I/O 1769-IR6 RTD/resistance Input Module	
1769-IT6	Compact I/O 1769-IT6 Thermocouple/mV Input Module	
1769-OA16	Compact 100 to 240V AC Solid State Output Module	
1769-OA8	Compact 100 to 240V AC Solid State Output Module	
1769-OB16	Compact Solid State 16-point 24V DC Source Output Module	
1769-OB16P	Compact Solid State 16-point 24V DC Source Output Module with Electronic Protection	
1769-OB32	Compact Solid State 32-point 24V DC Source Output Module	
1769-OB32T	Compact Current Solid-state Sourcing 24V DC Output Module	
1769-OB8	Compact Solid State 8-point 24V DC Source Output Module	
1769-OF2	Compact Analog Output Module	
1769-OF4	Compact Analog Output Module	
1769-OF4CI	Compact 4-channel Current Isolated Analog Output Module	

**Selecting Hardware: 1769 Compact Expansion I/O**

Select I/O Modules for Each Bank			Bus Current Draw Attribute (mA)		Calculate Current Draw			
Expansion I/O Modules	Base Unit Expansion	Bank 1	X	Y	Calculated Current for Base Unit Expansion (mA)		Calculated Current for Bank 1 Power Supply (mA)	
	n1	n2			n1 x X	n1 x Y	n2 x X	n2 x Y
Cat. No.	Number of Modules <sup>(1)</sup>		at 5V DC	at 24V DC	at 5V DC	at 24V DC	at 5V DC	at 24V DC
1769-ASCII			500	0				
1769-BOOLEAN			220	0				
1769-IA16			115	0				
1769-IA8I			90	0				
1769-IF4 (series A)			120	150				
1769-IF4 (series B)			120	60				
1769-IF4I			145	125				
1769-IF4XOF2			120	160				
1769-IF4FXOF2F			220	120				
1769-IF8			120	70				
1769-IF16C			190	70				
1769-IF16V			190	70				
1769-IG16			120	0				
1769-IM12			100	0				
1769-IQ16			115	0				
1769-IQ16F			110	0				
1769-IQ32			170	0				
1769-IQ32T			170	0				
1769-IQ6XOW4			105	50				
1769-IR6			100	45				
1769-IT6			100	40				
1769-OA8			145	0				
1769-OA16			225	0				
1769-OB8			145	0				
1769-OB16			200	0				
1769-OB16P			160	0				
1769-OB32			300	0				
1769-OB32T			220	0				
1769-OF2 (series A)			120	200				
1769-OF2 (series B)			120	120				
1769-OF4			120	170				
1769-OF4CI			145	140				
1769-OF4VI			145	75				
1769-OF8C			145	160				
1769-OF8V			145	125				
1769-OG16			200	0				
1769-OV16			200	0				
1769-OV32T			200	0				
1769-OW8			125	100				
1769-OW8I			125	100				
1769-OW16			205	180				

## 1769 Compact Digital ac Input Modules

Cat. No.	Number of Inputs	Voltage Category/Type, Input	Voltage Range	Input Delay Time, ON to OFF	Current, On-State Input, Min.	Current, Off-State Input, Max.	Backplane Current (mA) at 5V	Power Supply Distance Rating
1769-IA8I	8 individually isolated	100 or 120V ac	79...132V ac @ 47...63Hz	20 ms	5 mA @ 79V ac	2.5 mA	90 mA	8 modules
1769-IA16	16	100 or 120V ac	79...132V ac @ 47...63Hz	20 ms	5 mA @ 79V ac	2.5 mA	115 mA	8 modules
1769-IM12	12	200 or 240V ac	159...265V ac @ 47...60Hz	20 ms	5 mA @ 159V ac	2.5 mA	100 mA	8 modules

## 1769 Compact Digital ac Output Modules

Cat. No.	Number of Outputs	Voltage Category/Type, Output	Voltage Range	Leakage Current, Off-State Output, Max	Current per Output, Max.	Current per Module, Max.	Backplane Current (mA) at 5V	Power Supply Distance Rating
1769-OA8	8	100...240V AC	85...265 ac @ 47...63Hz	2.0 mA at 132V ac* 2.5 mA at 265V ac	0.25 A @ 60 °C (140 °F) 0.50 A @ 30 °C (86 °F)	2.0 A @ 60 °C (140 °F) 4.0 A @ 30 °C (86 °F)	145 mA	8 modules
1769-OA16	16	100...240V AC	85...265 ac @ 47...63Hz	2.0 mA at 132V ac* 2.5 mA at 265V ac	0.25 A @ 60 °C (140 °F) 0.50 A @ 30 °C (86 °F)	4.0 A @ 60 °C (140 °F) 8.0 A @ 30 °C (86 °F)	225 mA	8 modules

\*Recommended Loading Resistor - To limit the effects of leakage current through solid state outputs, a loading resistor can be connected in parallel with your load. For 120V ac operation, use a 15 k $\Omega$ , 2W resistor. For 240V ac operation use a 15 k $\Omega$ , 5W resistor.

## 1769 Compact Digital dc Input Modules

Cat. No.	Number of Inputs	Voltage Category/Type, Input	Voltage Range	Input Delay Time, ON to OFF	Current, On-State Input, Min.	Current, Off-State Input, Max.	Backplane Current (mA) at 5V	Power Supply Distance Rating
1769-IG16	16	5V dc, TTL input	4.5...5.5V dc	0.5 ms	1.5 mA off-state*	0.6 mA on-state*	120 mA	8 modules
1769-IQ6XOW4	6	24V dc, sinking or sourcing	10...30V dc @ 30 °C (86 °F) 10...26.4V dc @ 60 °C (140 °F)	8 ms	2 mA	1.5 mA	105 mA	8 modules
1769-IQ16	16	24V dc, sinking or sourcing	10...30V dc @ 30 °C (86 °F) 10...26.4V dc @ 60 °C (140 °F)	8 ms	2 mA	1.5 mA	115 mA	8 modules
1769-IQ16F	16 high-speed	24V dc, sinking or sourcing	10...30V dc @ 30 °C (86 °F) 10...26.4V dc @ 60 °C (140 °F)	1 ms	2 mA	1.5 mA	110 mA	8 modules
1769-IQ32	32	24V dc, sinking or sourcing	10...30V dc @ 30 °C (86 °F) 10...26.4V dc @ 60 °C (140 °F)	8 ms	2 mA	1.5 mA	170 mA	8 modules
1769-IQ32T	32 terminated	24V dc, sinking or sourcing	20.4...26.4V dc	8 ms	3 mA	1.7 mA	170 mA	8 modules

TTL inputs are inverted (0.2...0.8V dc = logic low voltage = ON-state; 2.0...5.5V dc = logic high voltage = OFF-state).