

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 ⁽¹⁾		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 Analog Modules

Cat. No.	Number of Inputs	Number of Outputs	Resolution, Bits	Signal Range	Sensors Supported	Backplane Current (mA) at 5V	Backplane Current (mA) at 24V	Power Supply Distance Rating
1769-IF4	4	—	14 bits (unipolar)	0...20 mA 4...20 mA 0...10V dc $\pm 10V$ dc 0...5V dc 1...5V dc	—	105 mA	60 mA	8 modules
1769-IF4I	4 individually isolated	—	16 bits (unipolar)	$\pm 10.5V$ dc -0.5...10.5V dc -0.5...5.25V dc 0.5...5.25V dc	—	145 mA	95 mA	8 modules
1769-IF8	8	—	16 bits (unipolar)	0...20 mA 4...20 mA 0...10V dc $\pm 10V$ dc 0...5V dc 1...5V dc	—	120 mA	70 mA	8 modules
1769-OF2	—	2	14 bits	—	—	120 mA	120 mA*	8 modules
1769-OF4CI	—	4 current, individually isolated	16 bits (unipolar)	4...20 mA 0...20V mA	—	145 mA	140 mA	8 modules
1769-OF4VI	—	4 voltage, individually isolated	16 bits (unipolar)	-10...10V dc 0...5V dc 0...10V dc 1...5V dc	—	145 mA	75 mA	8 modules
1769-OF8C	—	8 current	16 bits (unipolar)	0...20 mA 4...20 mA	—	145 mA	160 mA	8 modules
1769-OF8V	—	8 voltage	16 bits (unipolar)	$\pm 10.5V$ dc -0.5...10.5V dc -0.5...5.25V dc 0.5...5.25V dc	—	145 mA	125 mA	8 modules
1769-IF4XOF2	4	2 individually isolated	8 bits plus sign [®] individually isolated	0...10V dc $\pm 10V$ dc 0...5V dc 1...5V dc	—	120 mA	160 mA	8 modules
1769-IR6	6	—	Input filter and configuration dependent	—	100, 200, 500, 1000 Ω Platinum, alpha=385 100, 200, 500, 1000 Ω Platinum, alpha=3916 120 Ω Nickel, alpha=672 120 Ω Nickel, alpha=618 10 Ω Copper 604 Ω Nickel-Iron 518 0...150 Ω 0...500 Ω 0...1000 Ω 0...3000 Ω	100 mA	45 mA	8 modules
1769-IT6	6, plus 2 cold junction sensors	—	—	—	Thermocouple types: J, K, T, E, R, S, B, N, C $\pm 50mV$ $\pm 100mV$	100 mA	40 mA	8 modules

*If the optional 24V dc Class 2 power supply is used, the 24V dc current draw from the bus is 0 mA.

[®]Sign is always positive.