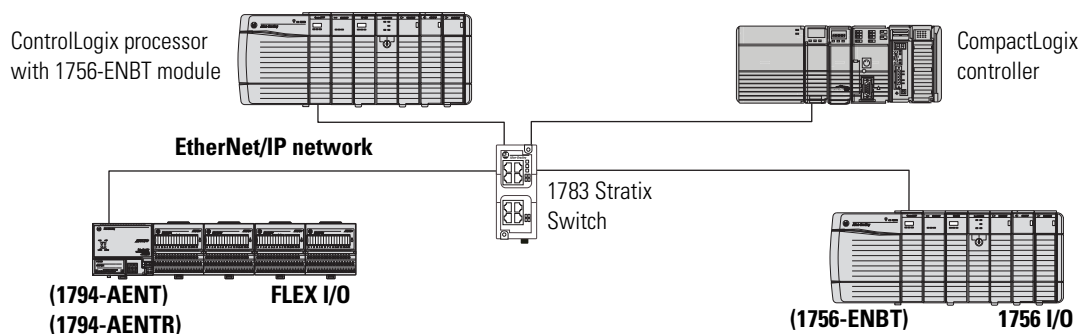


Figure 1 - EtherNet/IP Communication**FLEX I/O EtherNet/IP Adapter Specifications**

Attribute	1794-AENT	1794-AENTR	1794-AENTRXT
I/O module capacity	8		
Communication rate	10/100 Mbps		
Power consumption at 24V DC	9.6 W	9.3 W	
Power dissipation, max	7.3 W @ 19.2V DC	7.1 W @ 19.2V DC	6.1 W @ 19.2V DC
Thermal dissipation	24.9 BTU/hr @ 24V DC	24.2 BTU/hr @ 24V DC	20.8 BTU/hr @ 24V DC
Power supply 24V current load	450 mA	400 mA @ 24V DC 500 mA max	
Power supply input voltage, nom	24V DC		
Operating voltage range	19.2...31.2V DC (includes 5% AC ripple)		
Ethernet interface	1 – RJ-45 category 5	2 – RJ-45 category 5	
Dimensions (HxWxD), approx	87 x 94 x 69 mm 3.4 x 3.7 x 2.7 in.	87 x 94 x 92 mm 3.44 x 3.7 x 3.6 in.	

Device-Level Ring Topology

A DLR network is a single-fault tolerant ring network intended for the interconnection of automation devices. FLEX I/O modules can connect to a

Digital I/O Module Summary

Catalog Number	Inputs	Outputs	Terminal Base Unit	Electrical Range	Module Type
1794-OC16	—	16	1794-TB3, 1794-TB3S, 1794-TB3K, 1794-TB3SK	48V DC	Nonisolated outputs
1794-OG16				5V DC	
1794-OV16				24V DC	
1794-OV16P					Nonisolated, protected outputs
1794-OV32		32	1794-TB32, 1794-TB32S		Nonisolated inputs in groups

Relay Modules

1794-OW8	—	8	1794-TB2, 1794-TB3, 1794-TB3S, 1794-TBN, 1794-TBNF, 1794-TB3K, 1794-TB3SK, 1794-TBNK, 1794-TBNFK	24V DC	Isolated outputs Electromagnetic relays
1794-OW8XT					Isolated outputs Electromagnetic relays Extended temperatures

(1) Auxiliary terminal strips are required when using the 1794-TBN.

Select Input Filter Times for Digital Modules

Input filter times can be set to the following values (EtherNet/IP, ControlNet, and DeviceNet only).

Input Filter Times – AC Modules

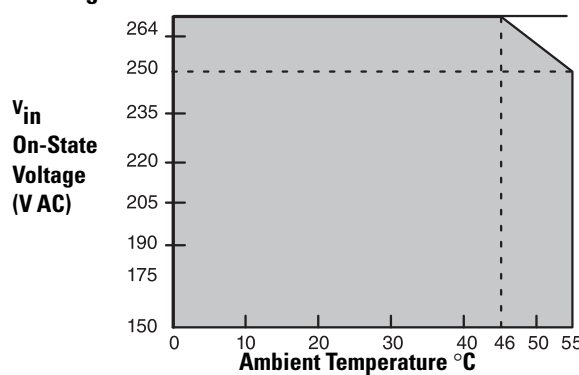
Filter Times for Inputs	Maximum Times (ms)			
	OFF to ON		ON to OFF	
	1794-IA8, 1794-IA8I	1794-IA16, 1794-IM8	1794-IA8, 1794-IA8I	1794-IA16, 1794-IM8
Filter time 0 (default)	8.4 ⁽¹⁾	7.5	26.4 ⁽²⁾	26.5
1	8.6	8	26.6	27
2	9	9	27	28
3	10	10	28	29
4	12	12	30	31
5	16	16	34	35
6	24	24.5	42	44
7	40	42	58	60.5

(1) OFF to ON filter is 8 ms.

(2) ON to OFF filter is 26 ms.

Input Filter Times – DC Modules

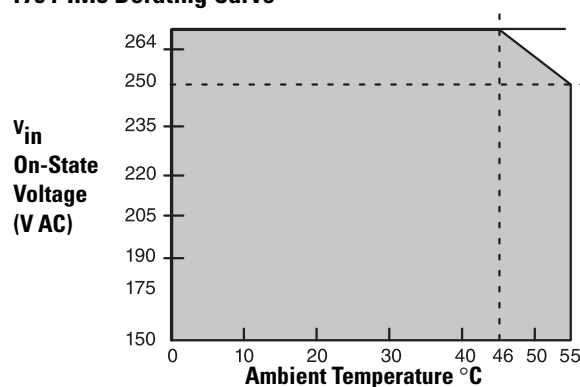
Filter Times for Inputs	Maximum Times (ms)
	OFF to ON and ON to OFF
	1794-IB8, 1794-IB16, 1794-IB32, 1794-IV16, 1794-IC16, 1794-IB10XOB6, 1794-IB16XOB16P
Filter time 0 (default)	0.25
1	0.5
2	1
3	2
4	4
5	8
6	16
7	32

Derating Curve

The area within the curve represents the safe operating range for the module under various conditions of user supplied 220V AC supply voltages and ambient temperatures.

 = All mounting positions (including normal horizontal, vertical, inverted horizontal) safe operating range.

1794-IM8 Derating Curve



The area within the curve represents the safe operating range for the module under various conditions of user supplied 220V AC supply voltages and ambient temperatures.

 = All mounting positions (including normal horizontal, vertical, inverted horizontal) safe operating range.

FLEX I/O Digital AC Output Modules

Digital AC Output Comparison

Specification	1794-OA8, 1794-OA8I	1794-OA16	1794-OM8	1794-OM16
Voltage, on-state output, nom	120V AC ⁽²⁾		220V AC	240V AC
Terminal base unit	1794-TBN, 1794-TBNF, 1794-TB2, 1794-TB3, 1794-TB3S, 1794-TBKD, 1794-TBNK, 1794-TBNFK, 1794-TB3K, 1794-TB3SK	1794-TBN ⁽⁴⁾ , 1794-TBNF, 1794-TB2, 1794-TB3S, 1794-TBKD, 1794-TBNK, 1794-TBNFK, 1794-TB3K, 1794-TB3SK	1794-TBN, 1794-TBNF, 1794-TBNK, 1794-TBNFK	
Current, on-state output, min	5 mA per output			
Current, on-state output, max	500 mA pre output @ 55 °C ⁽³⁾ 750 mA per output @ 35 °C 1.0 A on 4 nonadjacent outputs and 500 mA on the remaining 4 outputs @ 30 °C	500 mA per output @ 55 °C ⁽⁵⁾	500 mA @ 55 °C ⁽⁶⁾	
Current, on-state output, per module	4.0 A (8 outputs @ 500 mA)	4.0 A (16 outputs @ 250 mA)	4.0 A (8 outputs @ 500 mA) ⁽⁵⁾	4.0 A (16 outputs @ 250 mA)
Leakage current, off-state output, max	2.25 mA		2.5 mA	
Voltage drop, on-state output, max	1.0V @ 0.5 A	1.5V @ 0.5 A		
Output surge current, max	7 A for 45 ms, repeatable every 8 s	7 A for 40 ms, repeatable every 8 s		
Voltage, on-state output, min ⁽¹⁾	85V AC		159V AC	
Voltage, on-state output, nom	120V AC		240V AC	
Voltage, on-state output, max	132V AC		264V AC	
Power dissipation, max	4.1 W @ 0.5 A 6.3 W @ 0.75 A 6.3 W @ 1.0 A	4.7 W @ 0.5 A	5 W @ 0.5 A	6 W @ 264V AC
Thermal dissipation, max	14.0 BTU/hr @ 0.5 A 21.1 BTU/hr @ 0.75 A 21.4 BTU/hr @ 1.0 A	16.1 BTU/hr @ 0.5 A	17.1 BTU/hr @ 0.5 A	20.47 BTU/hr @ 264V AC