ControlLogix I/O Modules Specifications

Bulletin 1756

The ControlLogix® Architecture provides a wide range of input and output modules to span many applications, from high-speed digital to process control. The ControlLogix architecture uses Producer/Consumer technology, which allows input information and output status to be shared among multiple ControlLogix controllers.

Summary of Changes

This publication contains new and updated information as indicated in the following table.

Topic	Page
Corrected 1756-OF8H, 1756-OF8HK Technical Specifications	233
Corrected RTB Specifications	270

Rockwell Automation recognizes that some of the terms that are currently used in our industry and in this publication are not in alignment with the movement toward inclusive language in technology. We are proactively collaborating with industry peers to find alternatives to such terms and making changes to our products and content. Please excuse the use of such terms in our content while we implement these changes.

Bulletin 1756 ControlLogix chassis-based modules provide a full range of digital, diagnostic digital, analog, motion control, specialty I/O, and compute modules to meet your application needs. You can use any of the chassis-based modules in the local chassis of a ControlLogix controller or in a chassis linked to a ControlLogix controller across ControlNet© or EtherNet/IP™ networks.

Catalog Number Explanation

Certain I/O module catalog numbers contain characters at the **end** of the catalog number that indicate additional features.

Character	I/O Type	Description
D	Diagnostic	These modules provide diagnostic features to the point level.
E	Electronic fusing	These modules have internal electronic fusing to help prevent too much current from flowing through the module.
I	Individually isolated	These modules have individually isolated inputs or outputs.
K	Conformal coated	These modules have additional conformal coating and design considerations that add a degree of protection when exposed to harsh, corrosive environments.
XT	Conformal coated	These modules have additional conformal coating and design considerations that add a greater degree of protection when exposed to harsh, corrosive environments.
H	HART interface	These modules send and receive digital information across analog wires between smart devices and control or monitoring systems data using HART (Highway Addressable Remote Transducer) protocol.
S	Scheduled or Safety	These modules offer time-scheduled output control or ensure that ControlLogix control systems operate safely.
SOE	Sequence of Events	These modules offer sub-millisecond time-stamping on a per point basis.

IMPORTANT	When a ControlLogix product that is rated for harsh environments (corrosive atmosphere, extended temperature, etc.) is used in a system with other ControlLogix products that have lower specification values, the system is derated to the lowest common value.
	EXAMPLE: If the maximum operating temperature specification found in the Technical Data for your ControlLogix-XT module is 70 °C (158 °F) and you pair it with a ControlLogix chassis that is temperature rated to 60 °C (140 °F), your system is derated to 60 °C (140 °F).
	To ensure that your system is equipped for harsh environments, compare the corrosive atmosphere, temperature, and other specifications found in the Technical Data publication for each product.

Available 1756 I/O Modules

Module Type	Input Module Catalog Number	Page	Output Module Catalog Number	Page
AC Digital I/O Modules	1756-IA8D, 1756-IA8DK	7	1756-OA8, 1756-OA8K	26
	1756-IA16, 1756-IA16K	10	1756-OA8D	29
	1756-IA16I, 1756-IA16IK	13	1756-OA8E	32
	1756-IA32, 1756-IA32K	16	1756-OA16, 1756-OA16K	35
	1756-IM16I, 1756-IM16IK	19	1756-OA16I, 1756-OA16IK	38
	1756-IN16, 1756-IN16K	22	1756-ON8, 1756-ON8K	41
DC Digital I/O Modules	1756-IB16, 1756-IB16K, 1756-IB16XT	45	1756-OB8, 1756-OB8K	90
	1756-IB16D, 1756-IB16DK	49	1756-OB8EI, 1756-OB8EIK	94
	1756-IB16I, 1756-IB16IK	53	1756-OB16D, 1756-OB16DK	98
	1756-IB16IF, 1756-IB16IFK	57	1756-OB16E, 1756-OB16EK	102
	1756-IB16ISOE, 1756-IB16ISOEK	61	1756-OB16I, 1756-OB16IK	107
	1756-IB32, 1756-IB32K, 1756-IB32XT	65	1756-OB16IEF, 1756-OB16IEFK	111
	1756-IC16	68	1756-OB16IEFS, 1756-OB16IEFSK	115
	1756-IG16, 1756-IG16K	72	1756-OB16IS	119
	1756-IH16I, 1756-IH16IK	76	1756-OB32, 1756-OB32K, 1756-OB32XT	123
	1756-IH16ISOE, 1756-IH16ISOEK	79	1756-OC8, 1756-OC8K	127
	1756-IV16, 1756-IV16K	82	1756-OG16, 1756-OG16K	131
	1756-IV32, 1756-IV32K	86	1756-OH8I	135
			1756-OV16E	138
			1756-OV32E, 1756-OV32EK	142
Safety I/O Modules	1756-IB16S	147	1756-OBV8S	154
Contact I/O Modules			1756-OX8I, 1756-OX8IK	163
			1756-OW16I, 1756-OW16IK	166
Analog I/O Modules	1756-IF4FXOF2F, 1756-IF4FXOF2FK	169	1756-OF4, 1756-OF4K	204
	1756-IF8, 1756-IF8K	174	1756-OF8, 1756-OF8K	208
	1756-IF8I, 1756-IF8IK	179	1756-OF8I, 1756-OF8IK	212
	1756-IF16, 1756-IF16K	184		
	1756-IRT8I, 1756-IRT8IK	189		
	1756-IR12, 1756-IR12K	195		
	1756-IT16, 1756-IT16K	199		
HART I/O Modules	1756-IF8H, 1756-IF8HK	217	1756-OF8H, 1756-OF8HK	233
	1756-IF8IH, 1756-IF8IHK	221	1756-OF8IH, 1756-OF8IHK	237
	1756-IF16H, 1756-IF16HK	225		
	1756-IF16IH, 1756-IF16IHK	229		
Compute Modules	1756-CMEE1Y1	241		
	1756-CMS1B1, 1756-CMS1C1, 1756-CMS1D1, 1756-CMS1H1	243		
Specialty I/O Modules	1756-CFM, 1756-CFMK	245	1756-LSC8XIB8I, 1756-LSC8XIB8IK	258
	1756-HSC, 1756-HSCK	252	1756-PLS	263