

EX I/O Expansion Modules - Quick Disconnect Analog and Discrete I/O Modules



Features:

- Compatible with LT3000 models
- Mix and match any combination to meet your application requirements
- Multiple combinations for on/off, start/stop, pump and flow control
- Multi-channel thermocouple, RTD, 4-20mA DC current, DC voltage modules
- Compatible with GP-PRO EX Software version 2.0 or higher

Order Number	Description
EXM-DDI8DT	8-point sink/source shared I/O Unit, DC24V input signal can be connected
EXM-DDI16DT	16-point sink/source shared I/O Unit, DC24V input signal can be connected
EXM-DRA8RT	8-point relay output with 2 commons I/O Unit
EXM-DRA16RT	16-point relay output with 2 commons I/O Unit
EXM-DDO8UT	8-point transistor output sink I/O Unit
EXM-DDO16UK	16-point transistor output sink I/O Unit
EXM-DDO8TT	8-point transistor output source I/O Unit
EXM-DDO16TK	16-point transistor output source type I/O unit
EXM-DMM8DRT	4-point input sink-source, 4-point relay output with single common
EXM-AMI2HT	2-point analog input type
EXM-ALM3LT	2-point thermocouple input / 1-point analog type
EXM-AMM3HT	2-point analog input / 1-point analog output type
EXM-AMO1HT	1-point analog output type

Input/Output Mixed Modules

EX Modules

Models: Compatible with LT3000 Models

Up To 16 Inputs
Input/Output/Analog

Multiple Combinations Mix and Match GP-Pro EX Compatible

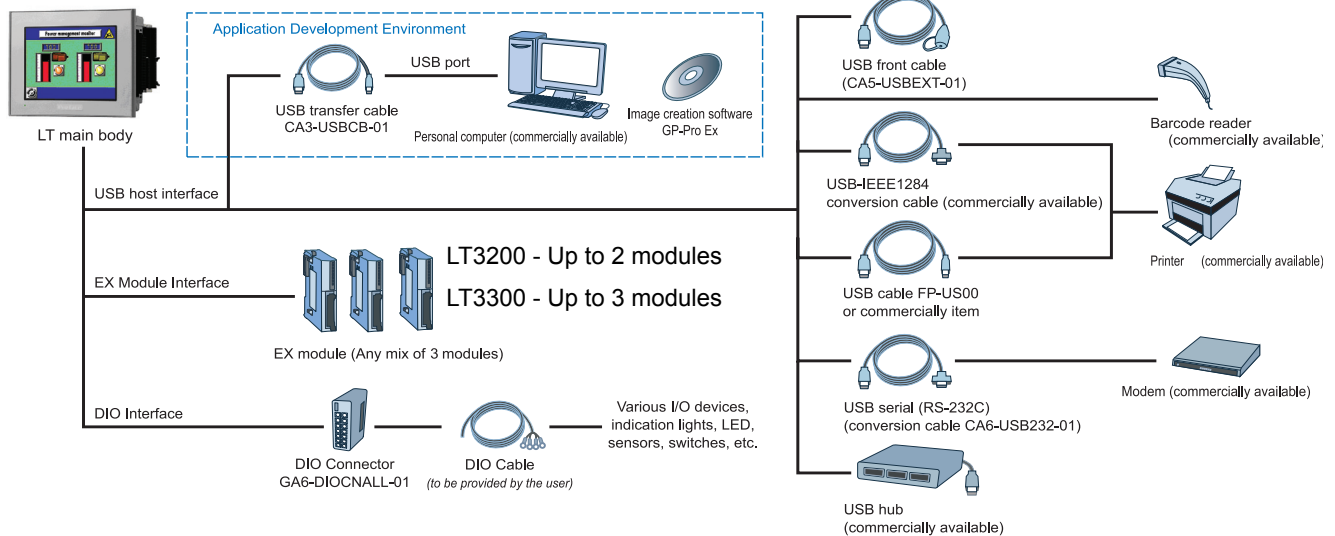


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Up to three EX modules can be combine with LT Series to expand I/O requirements

System Configuration Chart



Input modules

	EXM-000001	EXM-000101
Input Points	16 points (photoconductive type - dual row)	16 points (photoconductive type - dual row)
External Connections	16 Pin Terminal Connector	
Rated Voltage	DC24V	
Rated Input Current	7.2mA@DC24V	
Input Impedance	3.3kΩ	
Isolation Method	Between input terminals and internal circuit: photoconductor isolated. Between input terminals: not isolated.	
Input Delay Time	OFF - ON/From ON - OFF/From	
Watch LED	LED in lighting when input is ON	
Power Consumption	0.17W or less 30g (0.106)	0.37W or less 70g (0.24)

Output modules

	EXM-000001	EXM-000101	EXM-000201	EXM-000301	EXM-000401	EXM-000501
Output Points	8-point relay (2-circuit)	16-point relay (2-circuit)	8-point transistor (Sink)	8-point transistor (Source)	16-point transistor (Sink)	16-point transistor (Source)
Rated Output Voltage	-		DC24V			
External Connections	11-pin terminal connector	16-pin terminal connector	16-pin terminal connector		16-pin terminal connector	
Common Voltage	Optional/1 common		Optional/1 common		Optional/1 common	
Maximum Load Voltage	1-point 24V or less	24V or less	0.5A or less	0.5A or less	0.5A or less	0.5A or less
Minimum Load Voltage	0.7V@DC1.7V (minimum value)					
Mechanical Life	100,000 operations or more (load voltage not 1.0V) (operating)					
Mechanical Life	30 million operations or more (no load) (1.0V) (operating)					
Isolation Method	-		Between output terminals and internal circuit: photoconductor isolated. Between output terminals: not isolated.		-	
Output Delay Time	ON	0.5ms or less	200μs or less		200μs or less	
Output Delay Time	OFF	1.0ms or less	-		-	
Voltage Leakage When OFF	-		0.7mA or less			
Watch LED	LED in lighting when output is ON					
Power Consumption	1.10W or less 11g (0.39)	2.10W or less 44g (1.55)	0.30W or less 30g (1.06)		1.00W or less 20g (0.71)	

Input/output mixed modules

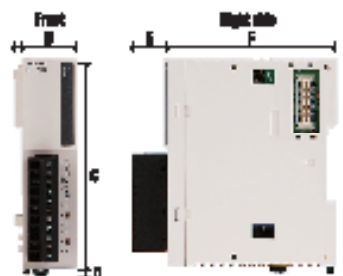
	EXM-000001
Input Points	16 points (photoconductive type - dual row)
Rated Input Voltage	DC24V
Rated Input Current	7.2mA@DC24V
Input Impedance	3.3kΩ
Isolation Method	Between input terminals and internal circuit: photoconductor isolated. Between input terminals: not isolated.
Input Delay Time	OFF - ON/From ON - OFF/From
Output Points	4-point relay (2-circuit)
Common Voltage	Optional/1 common
Maximum Load Current	Per Channel 24V or less
Min. Operating Load	0.7V@DC 1.7V
Mechanical Life	100,000 operations or more (load voltage not 1.0V) (operating)
Mechanical Life	30 million operations or more (no load) (1.0V) (operating)
Output Delay Time	ON 0.5ms or less
Output Delay Time	OFF 1.0ms or less
External Connections	11-pin terminal connector
Watch LED	LED in lighting when input is ON
Power Consumption	0.40W or less 30g (1.06)

Power modules

	EXM-000001	EXM-000101	EXM-000201	EXM-000301
Input Points	16 points			
External Connections	11-pin terminal connector			
Input Type	Single-ended Voltage Input, Differential Current Input	Differential Voltage Input		
Function	Sink			
Input Value of LED	2.5V@10mA input, 4V@10mA input	1.5V@10mA input, 4V@10mA input		
Input Impedance	20kΩ sink voltage input, 10kΩ current input	10kΩ or sink		
Isolation Method	Photoconductor isolation between input and internal circuit.			
Sampling Time	0.5ms or less			
Minimum Error	±1% of full scale			
Output Points	16 points			
Rated Output Voltage Range	Voltage@100mA, current@100mA			
Function	Sink			
Output Value of LED	2.5V@10mA output, 4V@10mA output			
Output Impedance	20kΩ or less voltage output, 10kΩ or less current output			
Isolation Method	Photoconductor isolation between output and internal circuit.			
Rated Output Voltage Transfer Rate	0.95 or less	1.0 or less	1.0 or less	1.0 or less
Minimum Error	±1% of full scale			
External Connections	11-pin terminal connector			
Power Consumption	0.30W or less 30g (1.06)			

Mounting dimensions and sizes of modules parts

Module	A	B	C	D	E	F
EXM-000101						
EXM-000001						
EXM-000101						
EXM-000201						
EXM-000301						
EXM-000401	3.0 [1.18]	29.5 [1.16]	60 [2.36]	4.8 [0.19]	14.5 [0.57]	76 [2.99]
EXM-000501						
EXM-000001						
EXM-000101						
EXM-000201						
EXM-000301						
EXM-000401						
EXM-000501						
EXM-000001						
EXM-000101						
EXM-000201						
EXM-000301						
EXM-000401						
EXM-000501						



Units are in [mm]



California Proposition 65 Warning—Lead and Lead Compounds

Advertencia de la Proposición 65 de California—Plomo y compuestos de plomo

Avertissement concernant la Proposition 65 de Californie—Plomb et composés de plomb

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