

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









Features:

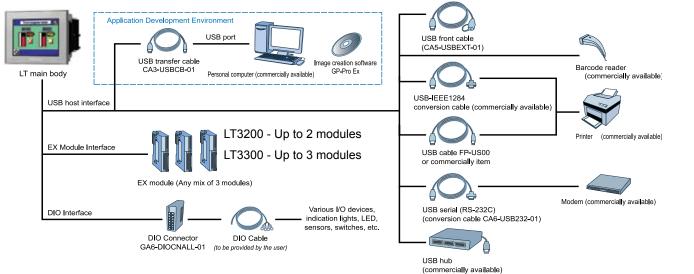
- Compatible with LT3000 models
- Mix and match any combination to meet your application requirements
- Multiple combinations for on/off, start/ stop, pump and flow control
- Multi-channel thermocouple, RTD, 4-20mA DC current, DC voltage modules
- Compatible with GP-PRO EX Software ٠ version 2.0 or higher

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



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

System Configuration Chart





Datasheet

Input module		EXM-DDI8DT					EXM-DDI16DT				
							Input Specifications				
Input Points			8	Bpoints (sii	k/source type-	dual use)			6points (sink/source type-dual us	e)	
External Connection			10-Pin terminal connector								
Rated Voltage								DC24V			
Rated Input Current								nA/DC24V			
Input Impedance				3.3k½							
Isolation Method				В	Between input terminals and internal circuit: photocoupler isolated Between input terminals: not isolated						
Input Delay Time							OFF-ON:4	ms ON-OFF:4ms			
Status LED							LED is lightir	ng when input is ON			
Power Consumption	Power Consumption			(.17W or less				0.27W or less		
Mass				85g (0.19lb)		100g (0.2lb)					
utput module									3, ,		
		EXM-DR/	A8RT	EXM-DRA16RT			EXM-DD08UT	EXM-DD08TT	EXM-DD016UK	EXM-DD016TK	
Output Points	<u> </u>	8-point relay (a	(a connect)	16 noi	nt relay (a-conn	(ont)	8-point transistor (Sink)	Output Specifications 8-point transistor (Source)	16-point transistor (Sink)	16-point transistor (Source)	
		o-point relay (a	a-connect)	10-hoi	n relay (a-com	ect)	o-point transistor (Sink)		C24V	To-point transistor (Source)	
Rated Output Voltage				-			40		1		
External Connection		11-pin terminal		10-pin	terminal conne	ctor		rminal connector	MIL con		
Common Design		4points/1cc					8points/1common		16points/1common		
Maximum Load Voltage	point		2A	or less			0.3	3A or less	0.1A o	r less	
nuxinum Loau Voitage	common	7A or le	less		8A or less		3	A or less	1A or	less	
Maximum Load Voltag	e	0.1	1m/A DC0.1\	V (referenc	e volue)				-		
Electrical Life		100,000 operation	uns or more (rat	ed resistive l	ad 1,800 operatio	ns/h)			-		
Mechanical Life					8,000operation		-				
Isolation Method	-			-			Retween output torn	ninals and internal circuit: photos	oupler isolated Between output	t terminals: not isolated	
				- or less			Dermeen outhur felli			נ נסוווווומוס. ווטל וסטומנכע	
Dutnut Dolay Timo	ON							,	rs or less		
	OFF		10m	s or less					rs or less		
Voltage Leakage (When C	JFF)			-					A or less		
Status LED								g when output is ON			
Power Consumption		1.16W or	r less		2.10W or less		0.55W or less 1.03W or			or less	
Mass		110g (0.:	.24lb)		145g (0.32lb)		85	g (0.19lb)	70g (0.	15lb)	
1put/output mixed modu	ile			Analog i				•			
		EXM-DMM	ISUBL				EXM-AMI2HT	EXM-AMM3HT	EXM-ALM3LT	EXM-AM01HT	
lumut C			OUNT				CAWFAWIZHT			EXIM-AIMOTHT	
Input S					L D				Input Specifications		
Input Points	4	points (sink/source t			Input Points			2points		-	
Rated Input Voltage		DC24V		External Connection		n	11-pin terminal connector				
Rated Input Current		7.3mA/DC	;24V	Input Type			Single-ended(Voltage Input),Differential(Current Input) Thermocouple, temperature Probes *1 –				
Input Impedance		3.3k½	2	Resolution				12bit		-	
		Between intput terr	rminals and						0.15°C(Temperature Probes) *1		
Isolation Method	B	nternal circuit: photoco Setween input terminal	als: not isolated						Type K:0.325°C(Thermocouple)		
Input Delay Time		OFF-ON:4ms ON	V-OFF:4ms	Inp	ut Value of LSE	5	2.5mV(voltage in	put), 4µA(current input)	Type J:0.300°C(Thermocouple)	-	
Output									Type T:0.100°C(Thermocouple)		
Output Points		4-point relay (a-	a.connect)	In	put Impedance		1M1/ min /voltogo	input), 10½(current input)	1M½ or min.		
Common Design	-	4point relay (a 4points/1co						• • • •			
, °		4000000		Isolation Method					internal airquit		
Assimum Load Current Per Channel								pler Isolation between input and	internal circuit	-	
Maximum Load L'urront		2A or les		8	ampling Time			pler Isolation between input and 20ms or less	internal circuit		
Maximum Load Current Per Ci		7A or les	ess	8				pler Isolation between input and 20ms or less ± 1% of full scale	internal circuit		
Maximum Load L'urront			ess	S N	ampling Time laximum Error			pler Isolation between input and 20ms or less			
Maximum Load Current Per Ci Min. Open/Close Loan		7A or les 0.1mA/DC (100,000 operation	ess 0.1V ons or more	N N	ampling Time laximum Error Dutput Points			pler Isolation between input and 20ms or less ±1% of full scale Output Specification	1point	-	
Maximum Load Current Per Ci		7A or les 0.1mA/DC (ess 0.1V ons or more	N N	ampling Time laximum Error	Range	Photocou	pler Isolation between input and 20ms or less ±1% of full scale Output Specification		-	
Maximum Load Current Per C Min. Open/Close Loar Electrical Life		7A or les 0.1mA/DC (100,000 operation (rated resistive load 1,800	O.1V Os or more OO operations(h)	N N	ampling Time laximum Error Dutput Points	Range	Photocou	pler Isolation between input and 20ms or less ±1% of full scale Output Specification	1point	-	
Maximum Load Current Per C Min. Open/Close Loan		7A or les 0.1mA/DC (100,000 operation	ess 0.1V ons or more 00 operations(h) ons or more	Rated O	ampling Time laximum Error Dutput Points utput Voltage F		Photocou -	pler Isolation between input and 20ms or less ± 1% of full scale Output Specification Vo	1point Itage(0 to 10V), current(4 to 20n	- - nA)	
Maximum Load Current Per Ci Min. Open/Close Loar Electrical Life Mechanical Life	d	7A or les 0.1mA/DC (100,000 operation (rated resistive load 1,800 20 million operation (no load 18,000operation)	255 O.1V Dons or more 00 operations(h) ons or more perations(h)	S N Rated O Out	ampling Time laximum Error Dutput Points utput Voltage F Resolution Dut Value of LS	B	Photocou - - -	pler Isolation between input and 20ms or less ± 1% of full scale Output Specification Ve 2.5m	1point Itage(0 to 10V), current(4 to 20n 12bits V(voltage output), 4µA(current o	- - nA) utput)	
Maximum Load Current Per C Min. Open/Close Loar Electrical Life Mechanical Life	d DN	7A or les 0.1mA/DC (100,000 operation (rated resistive load 1,000 20 million operation (no load 18,000ope 6ms or le	2SS 0.1V ons or more 00 operations(h) ons or more perations(h) ESS	Rated O Out Out	ampling Time laximum Error Dutput Points utput Voltage F Resolution Dut Value of LS tput Impedance	B	Photocou - - - -	pler Isolation between input and 20ms or less ± 1% of full scale Output Specification Vo 2.5m 2k% or less	1point Itage(0 to 10V), current(4 to 20n 12bits V(voltage output), 4µA(current o voltage output), 300½ or less (cu	- - nA) utput) urrent output)	
Maximum Load Current Per C Min. Open/Close Load Electrical Life Mechanical Life Output Delay Time 0	d DN FF	7A or les 0.1mA/DC (100,000 operation (rated resistive load 1,800 20 million operation (no load 18,000ope 6ms or le 10ms or le	2SS 0.1V ons or more 00 operations(h) ons or more perations(h) ESS	Rated O Out Out Is	ampling Time laximum Error Dutput Points utput Voltage F Resolution put Value of LS tput Impedance plation Method	B	Photocou - - - - - - - - - - - - -	pler Isolation between input and 20ms or less ± 1% of full scale Output Specification Vo 2.5m 2k½ or less Photocouple	1point Itage(0 to 10V), current(4 to 20n 12bits V(voltage output), 4µA(current o voltage output), 300½ or less (cr r Isolation between output and in	- - nA) utput) urrent output) ternal circuit	
Maximum Load Current Per C Min. Open/Close Loar Electrical Life Mechanical Life	d DN FF	7A or les 0.1mA/DC (100,000 operation (rated resistive load 1,800 20 million operation (no load 18,000ope 6ms or le 10ms or le	2SS 0.1V ons or more 00 operations(h) ons or more perations(h) ESS	Rated O Out Out Is Total Outy	ampling Time laximum Error Dutput Points utput Voltage F Resolution put Value of LS tput Impedance plation Method ut System Transfi	B	Photocou - - - - - - - - - -	pler Isolation between input and 20ms or less ± 1% of full scale Output Specification Vo 2.5m 2k% or less	1point Itage(0 to 10V), current(4 to 20n 12bits V(voltage output), 4/A(current o voltage output), 300% or less (cr Isolation between output and in 130ms + 1scan time	- - nA) utput) urrent output)	
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