

5.7" Quick Mount HMI/Controller: LT4301M Series



5.7 inch TFT Color LCD
Fan-less, Diskless Quick Mount HMI/Controller

LT4301M

Model: PFXLM4301TADAC, PFXLM4301TADAK, PFXLM4301TADDC, PFXLM4301TADDK



Powered by



Features:

- 65,536 color, LED backlit TFT color LCD Display
- Separate Front and Rear Module all for quick installation in 22mm hole
- 64-bit RISC CPU for ultra-fast screen refresh and communication
- No grid analog touch panel for improved visibility and precise part placement

- Supports a large selection of Serial or Ethernet protocols (Set up to 4 Ethernet or 3 Ethernet and 1 serial protocol.)
- USB Interfaces can be used for project transfer and to connect BCR scanners, printers, and memory devices.
- Programmed with the versatile GP-Pro EX Screen Development Software
- Multiple Mounting Options Available

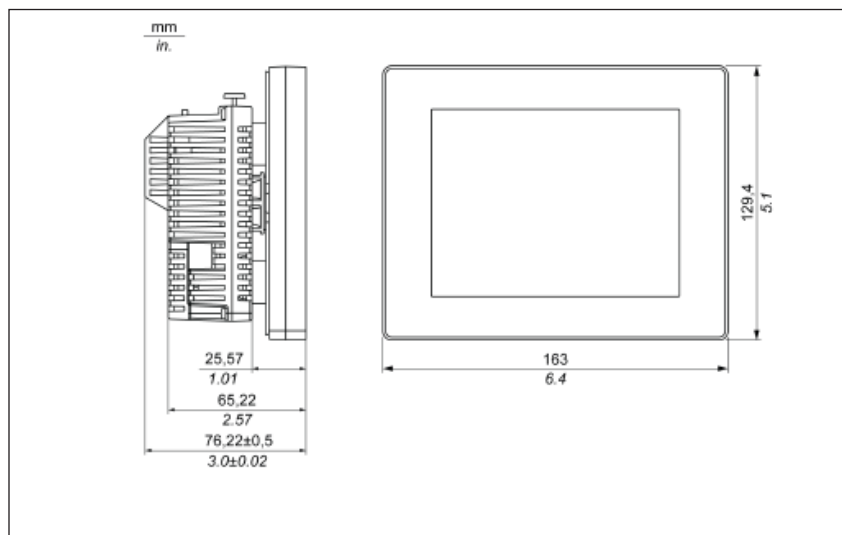
Specifications

Model	LT-4301TM (type AIO)		LT-4301TM (type DIO)
Order Numbers	PFXLM4301TADAC (Source) PFXLM4301TADAK (Sink)		PFXLM4301TADDC (Source) PFXLM4301TADDK (Sink)
Display	Size and Type	5.7" TFT Color LCD	
	Colors	65536 colors	
	Resolution	320 x 240 pixels (QVGA)	
	Brightness Adjustment	16 levels of adjustment available via touch panel in the Configuration menu	
	Backlight	White LED adjustable on/off control	
	Area	115.2 x 86.4 mm (4.53 x 3.40 in.)	
Memory	Touch Panel	Resistive Film (Analog) 1024 x 1024 pixels	
	Application	16MB FLASH EPROM (Capacity available for user application)	
	Data Backup	128KB nvSRAM	
	Logic Program Area	132KB FLASH EPROM (equivalent to 15,000steps) (expandable to 60,000 steps by using 1MB of user application memory)	
Interfaces	Serial (COM1)	x1 RS232C / RS485 (RJ45)	
	Ethernet	x1 10/100BASE-T	
	USB	x 1 (USB 2.0 Type A), x1 (USB 2.0 Mini-B)	
	CANOpen	CANopen master (Sub-D9) (supported 2014)	
Built-in DIO (Input)		12 points (configurable 2 x High Speed counter/ Pulse catch or 1 Up/Down High Speed Counter)	20 points (configurable 2 x High Speed counter/ Pulse catch or 1 Up/Down High Speed Counter)
Built-in DIO (Output)		8 points (configurable 2 x PWM/Pulse)	12 points (configurable 2 x PWM/Pulse)
Built-in AIO (Input)		4 points (Voltage/Current x2 - Temperature input x2 included)	0 points
Built-in AIO (Output)		2 points (Voltage/Current x2)	0 points
Clock		Battery backed clock	

General Specifications

Model	PFXLM4301TADAC (Source) PFXLM4301TADAK (Sink)		PFXLM4301TADDC (Source) PFXLM4301TADDK (Sink)
Electrical	Input Voltage Limits	24Vdc	
	Rated Voltage	20.4Vdc to 28.8Vdc	
	Power Consumption	≤ 13W	≤ 10W
Environmental	Ambient Operating Temp	Horizontal Installation	0...50 °C (32...122 °F)
		Vertical Installation	0...40 °C (32...104 °F)
	Storage Temperature	- 20...60 °C (- 4...140 °F)	
	Relative Humidity	5...85% w/o condensation (non-condensing, wet bulb temperature 39 °C (102.2 °F) or less)	
	Altitude Operation	0...2,000 m (0...6,560 ft)	
	Vibration & Shock Resistance	Mounted on a DIN rail	3.5 mm (0.138 in.) fixed amplitude from 5...8.4 Hz 9.8 m/s ² (1 gn) fixed acceleration from 8.4...150 Hz
		Mounted on a panel	3.5 mm (0.138 in.) fixed amplitude from 5...8.6 Hz 9.8 m/s ² (1 gn) fixed acceleration from 8.6...150 Hz
Structural	Ratings	Front Module: IP65f, NEMA Type 4x, rear module IP20	
	Certifications	CE, UL Listed, RoHS, GOST, DNV-GL, ATEX, IECEx	
	Cooling Method	Natural Air Circulation	
	Weight	LT-4301TM (Modular Type Analog): 784 g (27.65 oz)	LT-4301TM (Modular Type DIO): 749 g (26.41 oz)
	Warranty	Two year standard	

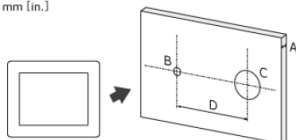
LT4301 External Dimensions



LT4301 Cut-Out Dimensions

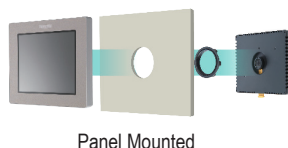
Unit: MM (in)

Unit : mm [in.]



A	B	C	D
1.5 to 6 [0.06 to 0.23]	4.00 [0.15]	22.50 [0.88]	30.00 [1.18]

* If rotating torque acted on a display module is 2.5 N.m (22.12 in-lb) or more, use an anti-rotation tee which is supplied with a LT unit. The anti-rotation tee supports up to 6 N.m (53.10 in-lb).



Panel Mounted

Software Compatibility



Powered By
Screen Editor
GP-Pro EX
HMI Development
Software
(Version 3.12 or newer)

Ordering Information

Part Number	Description
PFXLM4301TADAC (Source)	5.7" TFT, 1 Serial, 2 USB, Ethernet, 22mm Quick Mount, 24Vdc, Analog, Source
PFXLM4301TADAK (Sink)	5.7" TFT, 1 Serial, 2 USB, Ethernet, 22mm Quick Mount, 24Vdc, Analog, Sink
PFXLM4301TADDC (Source)	5.7" TFT, 1 Serial, 2 USB, Ethernet, 22mm Quick Mount, 24Vdc, Source
PFXLM4301TADDK (Sink)	5.7" TFT, 1 Serial, 2 USB, Ethernet, 22mm Quick Mount, 24Vdc, Sink

Optional Items

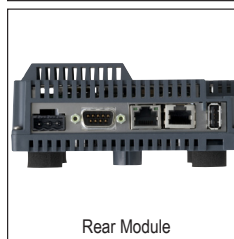
Part Number	Product Name
EX-ED-Vxx	GP-Pro EX Development Software (download version), xx refers to current version
EX-ED-Vxx-DVD	GP-Pro EX Development Software (download version + DVD backup media), xx refers to current version
PFXZXMADSM31	Display module / rear module separation cable (3m)
PFXZXMADSM51	Display module / rear module separation cable (5m)
PFXZLMCBJR21	Cable for RS-232C connection between various hosts and the LT4000M (RJ45 Type) -open leads
PFXZLMCBJR81	Cable for RS-485 connection between various hosts and the LT4000M (RJ45 Type) -open leads
PFXLM4B01DAC	LT4000M Analog model Rear Module - Source
PFXLM4B01DAK	LT4000M Analog model Rear Module - Sink
PFXLM4B01DDC	LT4000M DIO model Rear Module - Source
PFXLM4B01DDK	LT4000M DIO model Rear Module - Sink
PFXXM4300TP	5.7" Display Module
PFXXM4200TP	3.5" Display Module
PFXZLMCNI01	DIO Connector set for LT4000M
PFXZXMADSA1	Rear Module DIN Rail Adapter for LT4000M
GP377-GP4000M-AT00	Panel cutout adapter for mounting LT4000M Series in cutout of GP-330*T/S/L, ST-330*T/S/B/W, GP-230*T/S/L, GP377, GP370
GP37W2-GP4000M-AT00	Panel cutout adapter for mounting GP4000M Series, LT4000M Series in cutout of GP37W2, LT(GLC150)



LT4301TM



DIN Rail Mount with Cable



Rear Module



PLC Serial Cable

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Fax: 734.864.7347
www.profaceamerica.com

Customer Service Hotline: 800.289.9266

For more information

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