





# PFXSTM6B00DIOT (STM6000 Edge Box HMI)

Standard product information	Electrical specifications
Environmental specifications	Memory
Interface specifications	Structural specifications
Dimensions	










Standard product information	
Family	Pro-face Edge Box
Model	PFXSTM6B00DIOT
Global Code	PFXSTM6B00DIOT
Product Features	Edge Box HMI

Electrical specifications	
Rated input voltage	24 Vdc
Input voltage limits	19.2 to 28.8 Vdc
Allowable voltage drop	5 ms or less
Power consumption	Max.6.8 W When power is not supplied to external devices: 3.5 W
In-rush current	30 A or less
Noise immunity	Noise Voltage : 1,000 Vp-p Pulse Duration : 1 μs



Insulation resistance	500 Vdc, 10 MΩ or more (between power terminal and FG terminals)
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**Environmental specifications**

International safety standards	        
Surrounding air temperature	0 to 60 °C [32 to 140 °F]
Storage temperature	-20 to +60 °C [-4 to 140 °F]
Ambient humidity	10% to 90% RH (Non condensing, wet bulb temperature 39 °C [102.2 °F] or less)
Storage humidity	10% to 90% RH (Non condensing, wet bulb temperature 39 °C [102.2 °F] or less)
Dust	0.1 mg/m <sup>3</sup> (10 <sup>-7</sup> oz/ft <sup>3</sup> ) or less (non-conductive levels)
Pollution degree	For use in Pollution Degree 2 environment
Corrosive gases	Free of corrosive gases
Air pressure (altitude range)	800 to 1,114 hPa (2,000 m [6,561 ft.] above sea level or less)
Vibration resistance	IEC/EN 61131-2 compliant 5 to 9 Hz single amplitude 3.5 mm [0.14 in.] 9 to 150 Hz fixed acceleration: 9.8 m/s <sup>2</sup> X, Y, Z directions for 10 cycles (approx. 100 min.)
Concussion resistance	IEC/EN 61131-2 compliant 147 m/s <sup>2</sup> , X, Y, Z directions for 3 times
Electrical fast transient/burst	IEC 61000-4-4 2 kV: Power port (display unit) 1 kV: Signal ports

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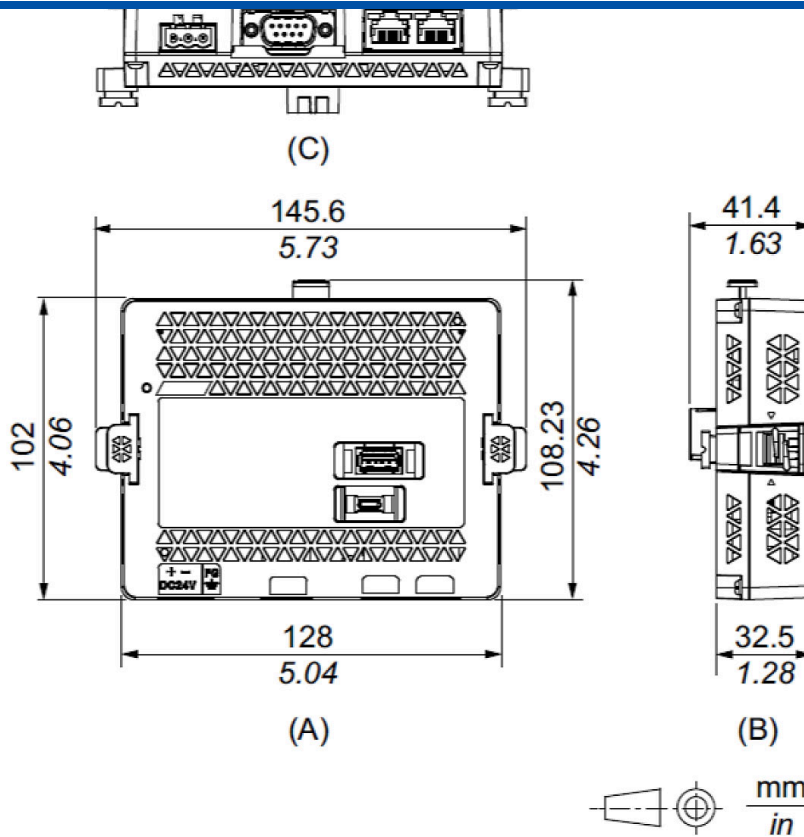
	<b>Local Storage</b> FLASH EPROM 220MB <b>Removable System</b> No <sup>*1</sup>
Backup memory	<b>Editor : BLUE Open Studio</b> - <b>Battery</b> Replaceable battery / Primary battery for clock data backup

\*1 This memory is used for HMI Runtime and project data. This local storage is used for file storage. Alarm history data, event log, and data logging are stored into local storage. (Using FLASH EPROM)

Interface specifications	
Serial (COM1)	Asynchronous Transmission: RS-232C / 422 / 485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: None, Even or Odd, Data Transmission Speed: 2,400 to 115,200 bps, Connector: D-Sub 9 pin (plug)
USB (Type A)	Conforms to USB 2.0 (Type A) x 1 Power supply voltage: 5 Vdc ±5 % Output Current: 500 mA/port Maximum transmission distance : 5 m [16.4 ft.]
USB (micro-B)	Conforms to USB 2.0 (micro-B) x 1, Maximum transmission distance : 5 m [16.4 ft]
Ethernet	IEEE802.3i / IEEE802.3u, 10BASE-T / 100BASE-TX, Connector: Modular jack (RJ-45) x 2

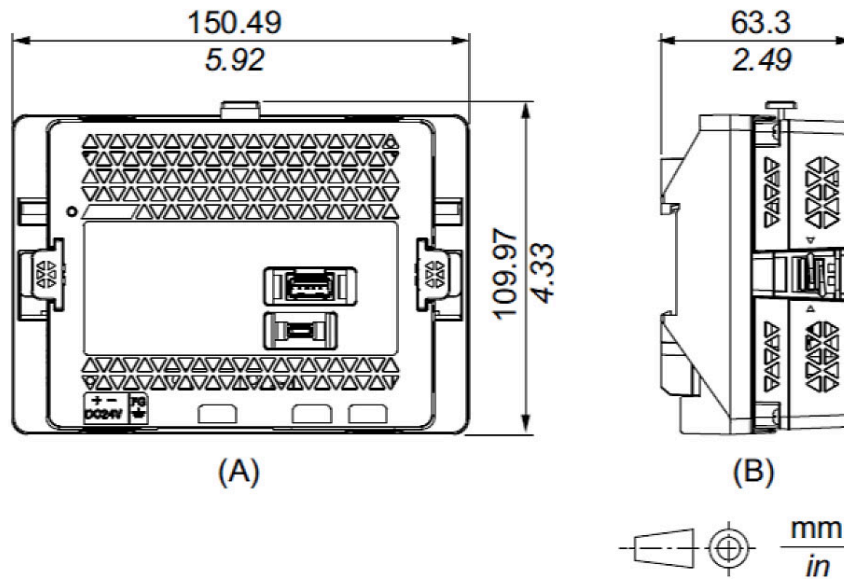
Structural specifications	
Grounding	Functional grounding: Grounding resistance of 100 Ω or less, 2 mm <sup>2</sup> (AWG 14) or thicker wire, or your country's applicable standard (SG and FG are connected inside the product).
Cooling method	Natural air circulation
Structure	IP20
External dimensions	W145.6 x H108.23 x D41.4 mm (5.73 x 4.26 x 1.63 in) (excluding protrusions)
Weight	0.27 kg (0.6 lb) or less

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A. Front  
B. Right  
C. Bottom

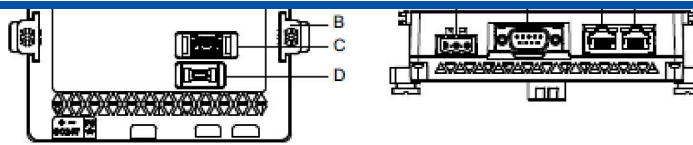
When Installation Adapter Attached



A. Front  
B. Right

Parts Identification

A. Status LED  
B. Bumper



- E. Power plug connector
- F. Serial interface(COM1)
- G. Ethernet interface(ETH1)
- H. Ethernet interface(ETH2)

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