

MBP-32T0-BI

Intel® Core i3 / i5 / i7

Control Cabinet Fanless Box PC



mSATA socket + CANOPEN + PROFITBUS

Feature

- Fanless solution and compact housing
- Intel Core i3 / i5 / i7 Processor
- DDR III L So DIMM memory up to 8GB
- 2 x 10/100/1000 Mbps Ethernet
- 2 x RS232 , 3x USB 2.0 , 1 x USB 3.0
- 1 x VGA , 1 x HDMI, 2 x Mini PCI e slot
- Various Optional FieldBus Modules for choice
- Control Cabinet Mount

System	
CPU	Intel Core i3 4010U / i5 4300U / BDW i7 5650U Processor
Memory	1 x 204Pin DDR III L So-DIMM up to 8GB
H/W Monitor	
Watchdog Timer	256-Level Watchdog Timer
Display	
VGA	1X VGA up to 1920 x 1600
HDMI	1X HDMI up to 1920 x 1080
I/O Ports	
USB	2 x USB 2.0 , 2 x USB 3.0
RS232	2
LAN	1 x Intel® I218-LM GbE LAN PHY 1 x Intel® I210-AT GbE LAN
Storage	
Storage	1 x SATA 2.0 2.5" SSD
Expansion	
Mini-PCIe	1 x Full-size (one w/ mSATA) 1 x Half
Power Requirement	
Power Input Voltage	12/19/24V DC-In with terminal block

Mechanical & Environmental	
Operation Temp	-10 ~ 40°C
Operation Humidity	10 ~ 90%, non-condensing
Storage Humidity	10 ~ 90%, non-condensing
Mount	Control Cabinet Mount
Construction	Aluminum + Steel Case
Dimension (L X W X H)mm	TBD
Weight	2kg
Optional	
GPIO	8-bits (4 x GPI , 4 x GPO)
RS232/ 422/ 485	1 x RS232/RS422/RS485 1x RS232
External antenna	1 or 2



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CANOpen	
General	
Model Number	26D2CA
Power Consumption	Typical : +5V @ 400mA
Certifications	CE, FCC class A
Dimensions	Module: 51 x 30 x 12.4mm (2" x 1.18" x 0.49") I/O Plate: 81 x 19.4 x 41mm (3.19" x 0.76" x 1.61")
Bus Type	PCI Express Mini Card Revision 1.2
Connectors	2x Male DB9
Speed	1Mbps
Protocol	CAN 2.0 A/B
Signal Support	CAN_H, CAN_L
Termination Resistor	120 Ohm (selected by jumper)
Protection	
Surge Protection	1,000 VDC
Isolation Protection	2,500 V
ESD Protection	15 kV
EFT Protection	2,500 V
Environment	
Operating Temperature	-20 ~ 60°C (-4 ~ 140°F)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	5-95% RH, non-condensing
Communications	
CAN Controller	NXP SJA-1000
CAN Transceiver	NXP 82C251
Protocol	CAN 2.0 A/B
Signal Support	CAN_H, CAN_L
Speed	1Mbps
CAN Frequency	16MHz
Termination Resistor	120 Ohm (selected by jumper)
Software	
CAN Bus Driver	Windows 2000/XP/Vista/7, Windows CE 5/6, Linux Ubuntu 12.10, QNX 6.5
CANopen Software	Windows 2000/XP/Vista/7, Windows CE 5/6

Optional Modules



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	PROFIBUS	PROFINET	POWERLINK	Sercos III	EtherNet/IP	EtherCAT
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General

Model Number	Master	26D1DB-MAE	26R2PN-MAE	/	26R2S3-MAE	26R2EI-MAE	26R2EC-MAE
	Slave	26D1DB-SAE	26R2PN-SAE	26R2PL-SAE	26R2S3-SAE	26R2EI-SAE	26R2EC-SAE

Power Consumption	Typical : +3.3 V @ 650mA						
Certifications	CE, UL						
Dimensions	Module: 51 x 30 x 12.4 mm						
	I/O Plate: 81 x 19.4 x 41mm	I/O Plate: 81 x 19.4 x 45 mm					
Bus Type	PCI Express Mini Card Revision 1.2						
Connectors	1 x Female DB9	2 x Female RJ45					

Communications

Protocol	PROFIBUS	PROFINET	POWERLINK	Sercos III	EtherNet/IP	EtherCAT
Controller	Hilscher netX100					
Displays	SYS, System status LED					
Signal interface	Iso. RS-485, RxD/TxD-P, RxD/TxD-N	Isolation 10BASE-T/100BASE-TX				
Speed	9.6 kbps ~ 12 Mbps	100 Mbps, 10 Mbps (depending on loaded firmware)				

Environment

Operating Temperature	0 ~ 70 °C (32 ~ 140 °F), w/ Air flow during measurement: 0,5 m/s
Storage Temperature	0 ~ 70 °C (32 ~ 185 °F)
Operating Humidity	10-95% RH, non-condensing

Software

OS Device	Windows 2000/XP/Vista/7/8 (32/64-bit)
Utility	SYCON.net

