

TPC-B200

Modular TPC - Computing Box Module with Intel Apollo Lake Atom and Celeron CPU



Features

- Computing Box powered by Intel® Atom™ E3940/Celeron® J3455 with 4 GB (up to 8GB) SODIMM SDRAM
- Supports two independent video interfaces with picture-in-picture function and up to 100m long signal transmission distance (iLINK technology) (iLINK technology)
- Multiple sized front panel module offering with P-Cap multi-touch sensor (12.1" & 19" w/ robust 5-wire resistive touch)
- 1 x Full-size mini PCIe
- M.2 and SSD expansion
- Supports TPM2.0 hardware security
- Wide Temp. Range -20~60 °C (Atom™ E3940)

Introduction

TPC-B200 computing box modules are powered by Intel® Atom™ E3940/Celeron® J3455 Processors to provide compact and fanless control panel solutions that deliver high-performance computing. With a highly flexible modular design, TPC-B200 allows users to change the panel sizes (12"-23.8").

Specifications

General

- **Certification** BSMI, CCC, CE, FCC Class A, CB/UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** 269 x 203 x 30 (mm)
- **Enclosure** Die cast aluminum alloy
- **Mounting** VESA Mount, Desktop, Wall or Panel Mount
- **OS Support** Windows 10 IoT Enterprise LTSB/LTSC
- **Security** TPM 2.0 (built-in)
- **Power Input** 24 V_{DC} ± 20%
- **Weight (Net)** 1.8 kg (4 lbs)

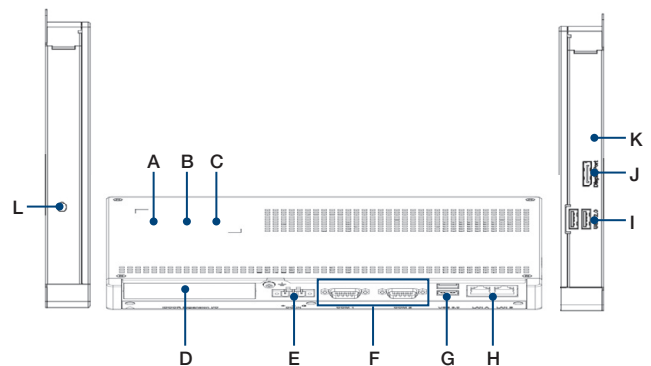
System Hardware

- **CPU** Intel® Atom™ E3940
Intel® Celeron® J3455
- **Memory** 4GB DDR3L SDRAM (up to 8GB)
- **Storage** 1 x M.2 (2242)
1 x 2.5" SATA SSD
- **LAN** 2 x 10/100/1000BASE-T
- **Expansion Slot** 1 x Half-size PCIe (supports GSM 11.11 SIM card)
- **I/O** 2 x RS-232/422/485
2 x USB 3.0, 2 x USB 2.0
1 x Audio line out
1 x DisplayPort 1.2 Out
- **Power Input** 24 V_{DC} ± 20%
- **Security** TPM 2.0 (built-in)

Environment

- **Humidity** 95% RH @ 40°C, non-condensing
- **Ingress Protection** IP66 (for optional panel module with "Panel Mount")
- **Operating Temperature** -20°C~60°C for TPC-B200-E12AE
0°C~60°C for TPC-B200-J12AE
- **Storage Temperature** -20°C~70°C

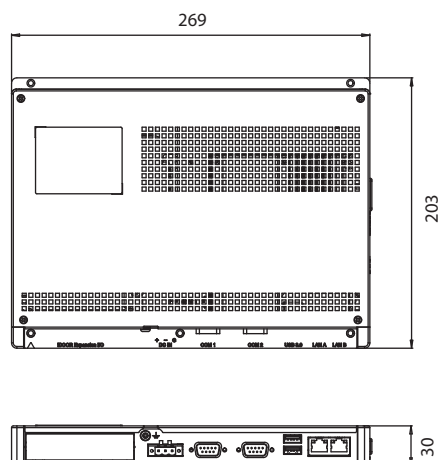
Rear View



- A. SSD
- B. mPCIe
- C. M.2
- D. iDoor
- E. Power Input
- F. RS-232/422/485
- G. USB 3.0 x 2
- H. LAN (10/100/1000) x 2
- I. USB 2.0 x 2
- J. Display Port
- K. Audio out
- L. Antenna opening

Dimensions

Unit: mm



Ordering Information

- **TPC-B200-J12AE** Intel® Celeron® J3455 1.5GHz Processor with 4GB DDR3L
- **TPC-B200-E12AE** Intel® Atom™ E3940 1.6GHz Processor with 4GB DDR3L

Panel Module P/N	FPM-D12T-BE	FPM-D15T-BE	FPM-D17T-BE	FPM-D19T-BE	FPM-D15W-FBE	FPM-D18W-BE	FPM-D21W-BE	FPM-D24W-BE
Description	12.1" XGA TFT LED LCD	15" XGA TFT LED LCD	17" SXGA TFT LED LCD	19" SXGA TFT LED LCD	15.6" FHD TFT LED LCD	18.5" HD TFT LED LCD	21.5" FHD LED LCD	23.8" FHD TFT LED LCD

Note: Display modules **cannot** work independently. A computing box (TPC-B200/500) or a monitor box (FPM-B700) is compulsory to operate the display module.

Packing List

Item	Part No.	Depiction	Qty
Grounding cable	1703011001-11	A Cable G-TEM 4.3 100CM C=GR/Y	1
Plug-In Block	1652007930-01	Plug-In Block 1x3P/5.08mm/PA66/FVA	1
Warranty	2190000902	CARDBOARD-WARRANTY REV. A2	1
BOX Fix Screw	1930000686	Screw M3x5L S/S D=5 H=1.3 (2+) ST Ni NK	5
iDoor Screw	1930002161	Screw M3x4.0(10.0)L R/S D=5.3 H=2 2+ ST BZn	2
HDD Screw	1930001361	Screw M3x4L S/S D=5 H=1.2 (2+) ST Ni NK	4

Optional Accessories

Part Number	Description
PCM-24S2WF-CE	802.11 a/b/g/n/ac 2T2R w/BT4.1, Intel AC9260
PWR-247-DE	Power Adapter (60W, 24V) for TPC-B200 & FPM-B700
20703WX9ES0041	Win10 IoT Ent 2019 LTSC Entry for TPC-B200
20703WX6ES0005	Win10 IoT Ent 2016 LTSB Entry for TPC-B200
20703AI0NS0011	Android 8.1 for TPC-B200
TPC-5000T-VMKE	VESA Kit for TPC-B200, B500 & FPM-B700
TPC-RUSB-W10LTSBE	Recovery USB Drive for TPC-B200
1702002600	Power cable (US) 1.8 M
1702002605	Power cable (EU) 1.8 M
1702031801	Power cable (UK) 1.8 M
1700000596	Power cable (CN/AU) 1.8 M

Note:

*the Bracket, Coaxial Cable and Antenna listed above are all needed for TPC-B200 to equip with Wi-Fi/BT feature; for TPC-B500, "Coaxial Cable" is not required.