# ESRP-CMS-TPCB200

## ThinManager Ready Modular TPC - Computing Box Module with Intel Apollo Lake Atom and Celeron

## Features

- Verified with ThinManager, ThinManager BIOS enabled
- 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

Advantech ThinManager compatible industrial thin clients exclusively integrate with ThinManager® software and are verified for ThinManager distributed applications. The thin clients are used to display content delivered from a remote ThinManager server. Multiple thin clients set up across the plant or facility with various roles and all maintained by the ThinManager server. All content remains on the server so downtime is reduced in the event of a failure. ESRP-CMS-TPCB200 is Small-Size Embedded Thin Client with Intel® Celeron® J3455. ESRP-CMS-TPCB200 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)
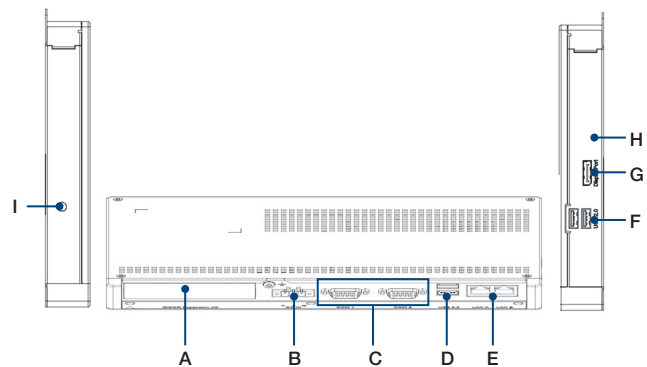- **Power Input** 24 $V_{DC}$ ± 20%
- **Weight (Net)** 1.8 kg (4 lbs)

### System Hardware

- **BIOS** ThinManager BIOS enabled
- **CPU** Intel® Celeron® J3455
- **Memory** 4GB DDR3L SDRAM (up to 8GB)
- **Storage** 1 x M.2 M Key 2242/ (SATA)
  1 x 2.5" SATA SSD
- **LAN** 2 x 10/100/1000BASE-T
- **Expansion Slot** 1 x Full mini-PCIE (PCIE+USB)
- **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
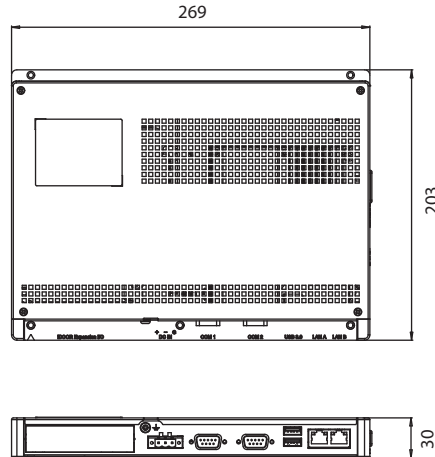- **Storage Temperature** -20°C~70°C

## Rear View



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

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**Modular Panel PCs**

## Dimensions

Unit: mm

269

203

30

## Ordering Information

- **ESRP-CMS-TPCB200**    Thin client with TPC-B200

| 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/F/VA | 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 |
| 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.