

BOXER-6641-PRO

Fanless embedded box PC with Intel® 8th and 9th generation processors

BRESSNER
A ONE STOP SYSTEMS COMPANY

Features

- Intel® Core™ 9th/8th Gen. / Intel® Pentium® / Intel® Celeron® CPU
- 2x DDR4-2666 SO-DIMM, up to 64 GB
- Intel® C246 / H310 chipset
- Wide power input range 10 ~ 35V
- Operating temperature: -40 °C ~ 70 °C



BOXER-6641-PRO – Powerful Embedded Box PC with Extended Temperature Range

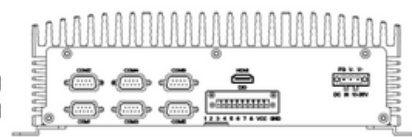
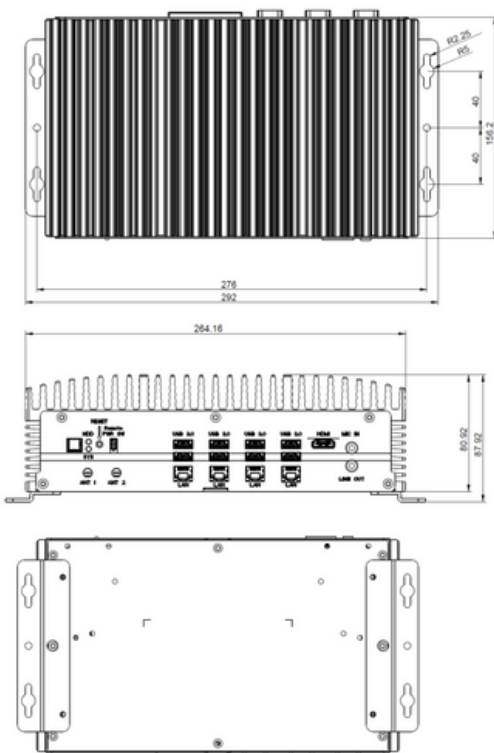
The BOXER-6641-PRO sets the standard for Embedded Box PCs in demanding industrial environments with its impressive performance and reliability. Equipped with Intel® Core™ processors of the 9th and 8th generations (formerly Coffee Lake/Coffee Lake Refresh), this robust Embedded Box PC offers optimal performance to tackle even the most demanding industrial applications.

What particularly distinguishes this Embedded PC is its extended operating temperature range from -40°C to 70°C. This feature allows the Box PC to operate in extreme environments where conventional systems would reach their limits. This temperature tolerance ensures reliable functionality even under extreme conditions, whether in production, outdoor settings, or other challenging industrial environments.

Another outstanding feature is the use of graphene for the thermal design of the fanless system. This innovative technology significantly improves thermal efficiency, leading to optimized computing performance in real-time applications. The fanless design not only reduces maintenance efforts but also enhances the overall reliability of the system.

With the BOXER-6641-PRO, you are investing in an Embedded Box PC that not only meets the highest performance requirements but also withstands the challenges of the most extreme environments. Rely on the proven quality and innovation of this robust system for a seamless integration into your industrial processes. The BOXER-6641-PRO – your reliable choice for challenging applications.

Drawing (mm)



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Specifications	Product: BOXER-6641-PRO
SYSTEM	
CPU	Intel® Core™ i7-9700TE Intel® Core™ i7-8700T Intel® Core™ i5-8500T Intel® Core™ i3-8100T Intel® Pentium® G5400T Intel® Celeron® G4900T
Chipset	Intel® C246/H310
RAM	2x DDR4-2666 SO-DIMM slot Up to 64GB, ECC- or Non-ECC support
Storage	2x 2.5" SATA HDD/SSD bay
Expansion	1x Full-size Mini PCIe 1x Full-size Mini Card (PCIe/mSATA switch by BIOS, Default: mSATA) 1x SIM slot
Operating System	Windows® 10 64-bit Linux Ubuntu 20.04.2
INTERFACE	
Ethernet	4x RJ-45 for GbE LAN (3x Intel® i211, 1x Intel® i219)
USB	4x USB 3.2 Gen 1 (A1 model) 8x USB 3.2 Gen 1 (A2 model) 4x USB 2.0 (A1 model)
COM	6x DB-9 for RS-232/422/485
Digital I/O	10-pin terminal block for 8-bit DIO
Video	2x HDMI
Audio	1x Mic-in and Line-out
Power	1x 3-pin DC input
Other	1x Power button 1x Remote Power switch 1x Reset button
ENVIRONMENTAL	
Cooling	Fanless
Power Supply	3-pin DC input 10 ~ 35V DC
Remote Control & LED	1x HDD LED 1x SYS LED
Operating Temperature	-40°C to 70°C, according to IEC68-2-14 with 0.5 m/s AirFlow
Storage Temperature	-40° ~ 80°C
Vibration / Shock Resistance	Vibration: 2 Grms/ 5 ~ 500Hz/ operation (with SSD)
Humidity	5 ~ 95% @ 40°C, non-condensing
Dimensions	264.2 (W) x 80.92 (D) x 156.2 (H)mm
Weight	4.7 kg (gross) 3.7 kg (net)
Mounting	Wallmount
Certifications	CE/FCC Class A

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Ordering Information	BOXER-6641-PRO-A1-1010	BOXER-6641-PRO-A2-1010
Chipset	Intel® H310	Intel® C246
Ethernet	4x Gigabit Ethernet ports	4x Gigabit Ethernet ports
USB	4x USB 3.2 Gen1 4x USB 2.0	8x USB 3.2 Gen1
Digital I/O	8-bit	8-bit
COM	6x DB-9 for RS-232/422/485	6x DB-9 for RS-232/422/485
Audio	1x Mic-in and Line-out	1x Mic-in and Line-out
Storage	2x Internal 2.5" SATA bay	2x Internal 2.5" SATA bay
Video	2x HDMI	2x HDMI
Expansion	1x Full-size Mini Card (PCIe/mSATA switch by BIOS, Default: mSATA) 1x SIM slot	1x Full-size Mini Card (PCIe/mSATA switch by BIOS, Default: mSATA) 1x SIM slot
Mounting	Wallmount	Wallmount
Power	10 ~ 35V DC	10 ~ 35V DC
Operating Temperature	-40°C to 70°C, according to IEC68-2-14 with 0.5 m/s AirFlow	-40°C to 70°C, according to IEC68-2-14 with 0.5 m/s AirFlow

Scope of delivery

- 2x Wall mounts
- 1x 3-pin DC-in power connector
- 1x 10-pin DIO connector
- 1x Screw package
- 1x BOXER-6641-PRO

Optional accessories

- 120W Power adapter // SKU: 125590120B
- Power cable (US type) // SKU: 17020231802
- Power cable (EU type) // SKU: 1702031803
- Power cable (JPN type) // SKU: 170203180E