

# BAREBONE

## XPC slim

# XB860G2

### FLEXIBLE 4.5-LITRE PC WITH PCI-E SLOTS

The Shuttle XPC slim Barebone XB860G2 is a 4.5-litre PC with two slots for PCI-Express expansion cards. Together with a powerful socket LGA1851 Intel Core Ultra 2xx desktop processor (code name "Arrow Lake-S"), this platform is perfectly suited for many professional applications where performance, flexibility and a compact form factor matter. You can install e.g. a multiport graphics card, a video capture card or I/O card to set up a mini PC for applications such as video wall presentations, graphics workstations, media capturing, surveillance, POS, POI as well as network and industrial applications. Even mid-range gaming is possible.



Supports INTEL  
CORE ULTRA



DUAL-SLOT  
PCI-EXPRESS



1x HDMI 2.1 (8K)  
1x HDMI 2.0 (4K)



DP 1.4a



DUAL LAN  
2.5G + 1G



2x 48 GB DDR5  
SUPPORT



3x NVMe SSD  
SUPPORT



OPTIONAL  
WLAN / 4G/5G



HEATPIPE  
COOLING



ALWAYS-ON-  
JUMPER



MAX.  
50 °C



24/7  
SUPPORT

### SLIM DESIGN

- Robust black steel chassis with open front (without I/O covers)
- Dimensions: 23.7 x 20 x 9.5 cm (LWH), ca. 4.5-litre
- Supports 24/7 Nonstop Operation
- Operating temperature: 0~50 °C (non-condensing)
- Mini-ITX Mainboard (17 x 17 cm)
- Hole for Kensington Lock
- VESA mount bracket included

### OPERATING SYSTEM

- An operating system is not included
- Supports Windows 11 and Linux (64-bit)

### PROCESSOR SUPPORT

- Socket LGA1851 supports Intel Core Ultra 200 series 9/7/5 processors (code name "Arrow Lake-S"), max. 65W TDP
- Advanced heatpipe cooling system with two 70 mm fans

### CHIPSET

- Intel B860 Chipset

### MEMORY SUPPORT

- 2x 262-pin SO-DIMM slot
- Supports DDR5-5600
- max. 2x 48 GB = 96 GB in total

### SLOTS AND STORAGE BAYS

- 2x PCI-Express Expansion Slots (Gen5 X16 and Gen4 X1)
- 3x M.2-2280M Slots für M.2 SSDs
  - Slot 1: supports PCIe Gen4x4 (NVMe) and SATA
  - Slot 2: supports PCIe Gen4x4 (NVMe) and USB3.2 Gen2
  - Slot 3: supports PCIe Gen5x4 (NVMe) - access from the bottom side
- 1x M.2-2230E slot supports an optional M.2 WLAN card

### CONNECTORS

- HDMI 2.1 (8K) ■ HDMI 2.0 ■ DisplayPort 1.4a ■ Dual Intel LAN (2.5G and 1G) ■ 2x USB 3.2 Gen2 ■ 4x USB 3.2 Gen1 1 (1x Type-C) ■ 2x USB 2.0
- 2x Audio Ports (3.5 mm): Line-out and Mikrofon-Eingang ■ Connector for external Power Button ■ "Always-On" Jumper ■ DC-Input

### POWER SUPPLY

- External power adapter: 180 W / 19.5 V

### OPTIONAL ACCESSORIES

- WLAN kit with Wi-Fi 6 module and external antennas (WLN-M12)
- Cable for external power button (CXP01)
- VGA port (PVG01) ■ Adapter to support a 4G/5G mobile card (WWN04)
- Expansion kit to support an additional 180W power adapter (PRC02)

### Shuttle XPC slim PCs with Intel 800 series chipset



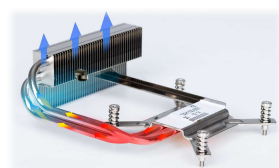
| Product        | Vol.   | PCIe Slots | Chip | HDMI 2.x | DP 1.4a | DP 1.4a/USB4 | VGA Port | max. Displays | LAN (Intel) | M.2 SSD Gen4/5 | USB 3.2 Gen2/1 | USB 2.0 | COM Port | Pwr Adap. | DC-In   | VESA Mount |
|----------------|--------|------------|------|----------|---------|--------------|----------|---------------|-------------|----------------|----------------|---------|----------|-----------|---------|------------|
| DH810S         | 1.35 L | —          | H810 | 1        | 2       | —            | opt.     | 3             | 1G          | 1 / 0          | 2+2            | 4       | 1        | 120W      | 12V+19V | incl.      |
| DH810          | 1.35 L | —          | H810 | 1        | 1       | 1            | opt.     | 3             | 1G+2.5G     | 1 / 0          | 2+2            | 4       | 2        | 120W      | 12V+19V | incl.      |
| DB860          | 1.35 L | —          | B860 | 2        | 1       | 1            | opt.     | 4             | 1G+2.5G     | 0 / 1          | 4+4            | 0       | 2        | 180W      | 12V+19V | incl.      |
| XH810          | 3.5L   | —          | H810 | 2        | 1       | —            | opt.     | 3             | 1G+2.5G     | 2 / 0          | 2+2            | 4       | 3        | 120W      | 12V+19V | incl.      |
| <b>XB860G2</b> | 4.5L   | X16+X1     | B860 | 2        | 1       | —            | opt.     | 4             | 1G+2.5G     | 2 / 1          | 2+4            | 2       | 0        | 180W      | 19V     | incl.      |

## PRODUCT FEATURES



### The slim chassis - a clean and modern look

Shuttle has always placed great emphasis on the interior and exterior aesthetics of their Mini-PCs with the belief that a good blend of style and form factor allows the Mini-PC to be attractive, versatile and work well in almost any environment. The XB860G2 was designed just like that and shines in a clean and modern appearance. The front panel connectors are easy to access for daily use, and this tiny tot barely stands at 9.5 cm in height.



### Low noise thanks to heatpipe cooling system

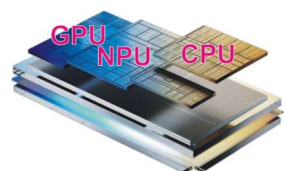
An active dual-fan heatpipe cooling system ensures whisper-quiet operation and system stability.



### Supports extended temperature range and 24/7 operation

The Shuttle XPC slim Barebone XB860G2 is officially approved for 24/7 permanent operation. Thanks to its efficient cooling, this PC runs highly reliably making it perfectly suitable for digital signage and POI/POS applications - even at ambient temperatures of up to 50 °C (non-condensing).

**Caution:** For high ambient temperatures over 40 °C we strongly recommend to use SSDs.



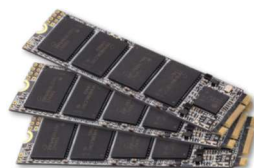
### Supports Socket LGA1851

#### Intel® Core™ Ultra processors

"Arrow Lake-S" is the codename for Intel's Core Ultra 200 series Generation of Intel® Core™ Ultra Desktop Processors for socket LGA1851 introduced along with the 800-Series chipsets. These processors feature up to 24 cores (8 Performance-cores and 16 Efficient-cores), up to 4 Intel Xe graphics cores and integrates a Neural Processing Unit (NPU).

### Supports three digital displays and optional VGA

The XB860G2 features three digital video outputs: HDMI 2.1, HDMI 2.0 and DisplayPort (DP 1.4) which all can run at 4K (3840 x 2160 / 2160p) high resolution at 60 Hz frames per second. The HDMI 2.1 port can even support 8K resolution at 60 Hz. As an option, the XB860G2 has also be equipped with an additional VGA port. The PC supports a maximum of four displays.



### Three M.2-Slots for SSD cards

XB860G2 offers three M.2-2280 slots which support M.2 SSD storage cards with NVMe/PCIe (one of them on the bottom side of the PC). Type 2280 means, it supports the usual M.2 cards with a width of 22 mm and a length of 80 mm.



### Two PCI-Express Slots

XB860G2 supports one dual-slot PCI-Express expansion card or two single-slot cards with a maximum length of 20.8 cm. For particularly power-hungry cards, a second power adapter can be installed as an option (PRC02 extension required).



### Dual Network (Intel 1G + 2.5G)

The Shuttle XPC slim Barebone XB860G2 supports Dual LAN with Intel network adapters, which are popular for their excellent performance and driver compatibility and are the preferred choice for professional environments. One LAN port even supports up to 2.5Gbps. With XB860G2 you can expand your network's bandwidth and reduce digital bottlenecks.



### Power on after Power fail

The BIOS setup provides a "Power-On after Power Fail" function that can be found under "Power Management Configuration". As the name indicates, this function determines the PC's behaviour after power failure: (1) unconditional power on, (2) restore former status (3) keep system turned off (4) Power-On by LAN or (5) Power-On by Real-Time-Clock. As a matter of the nature of this function, it may fail after short power failures. This is why the XB860G2 also comes with a hardware-based solution. By removing Jumper JP4 the system will start unconditionally once power is applied.



### External power button by separate remote line

If, because of space constraints (e.g. in case of fixed installation), the machine cannot be switched on by pressing the front power button, it can be powered on by a separate remote line. You will find an appropriate four-pin connector at the back panel of the XB860G2 (pitch 2.54 mm). Furthermore, this connector provides a Clear CMOS function and +5V DC voltage supply for external devices.

+5V voltage (2) (4) Power Button  
Clear CMOS (1) (3) Ground

## REQUIRED COMPONENTS

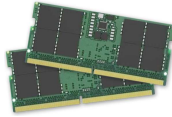
The following components need to be added to make it a fully-configured Mini PC

### Shuttle XPC slim Barebone XB860G2



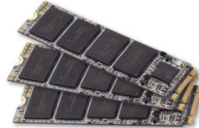
#### LGA1851 Processor

Intel Core Ultra 5/7/9 - 200 series  
Code name "Arrow Lake-S"  
TDP max. 65 W



#### Memory Modules

Up to two DDR5-5600 (or higher)  
SO-DIMM memory modules max. 48 GB each  
Total capacity: 96 GB



#### M.2 SSDs

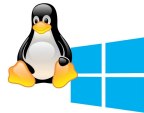
Supports three M.2-2280 SSD cards  
- Slot 1: supports PCIe Gen4x4 and SATA  
- Slot 2: supports PCIe Gen4x4 and USB3.2 Gen2  
- Slot 3: supports PCIe Gen5x4 (from bottom side)



#### PCI-Express Card (optional)

e.g. Dual Slot Graphics Card, PCIe X16, max. 75 W TDP  
Dimensions: max. 208 mm x 120 mm x 45 mm  
Two Single-Slot PCIe cards (X16 and X1) can also be used.

Graphics cards up to 225W are supported with optional accessory **CXP02** and **PE180** – see below).



#### Operating System

Windows 11 or Linux (64-bit only)

## OPTIONAL ACCESSORIES FROM SHUTTLE



#### WLAN-Accessory

##### WLN-M12

Intel AX200/AX210 WLAN card with two external antennas supports WLAN 802.11ax (Wifi-6) and Bluetooth



#### VGA port adapter **PVG01**

This accessory will add an analog VGA video output. This provides a total of four video outputs, all of which can be active simultaneously.



#### 4G/5G Adapter Kit

##### WWN04

allows the installation of a 4G or 5G card and nano SIM card (occupies one M.2-2280 slot)



#### Riser Card **PRC02** and Power Adapter **PE180**

With the **PRC02** expansion kit, a second 180W power adapter **PE180** can be used to support more powerful graphics cards.



#### Cable **CXP01**

Cable for external push button switch (without button)

## EXAMPLES WITH PCE-EXPRESS EXPANSION CARDS



Shuttle XPC slim Barebone XB860G2 with powerful graphics card installed

Despite its compact dimensions, the Shuttle XPC slim Barebone XB860G2 sports a full-size PCI-Express-X16 slot for dual-slot cards not exceeding 205 mm (length), 120 mm (height) and 45 mm (width) and max. 75 W power consumption. Two single-slot cards can also be used. At the same time, other powerful PC components such as an Intel Core Ultra 2xx processor or 96 GB DDR5 RAM are supported. This makes it particularly versatile in use which often asked for a bigger PC in the past.

Including 4-pin Molex connector with 5V/2A auxiliary voltage for special expansion card:



| EXPANSION CARD                                                                                                                                          | POSSIBLE APPLICATIONS                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gaming Graphics Card (Dual Slot)</b><br>e.g. NVIDIA GeForce RTX 3050 or RTX 5060 (for RTX 5060: the extensions PRC02+PE180 is required – see below.) | <ul style="list-style-type: none"> <li>Desktop PC</li> <li>3D Workstation</li> </ul>                                                                                                             |
| <b>Multi-port Graphics Card</b><br>e.g. Matrox C680 with 6x Mini-DisplayPort                                                                            | <ul style="list-style-type: none"> <li>Visualisation for Control Rooms</li> <li>Surveillance and Security</li> <li>Digital Signage with Video Wall</li> <li>Information Display (POI)</li> </ul> |
| <b>CAD Graphics Card</b><br>e.g. NVIDIA Quadro T400/T1000 and maximum NVIDIA RTX PRO 4000 Blackwell SFF                                                 | <ul style="list-style-type: none"> <li>CAD Applications</li> <li>Content Creation</li> <li>3D Workstation</li> </ul>                                                                             |
| <b>Video Capture Card</b><br>e.g. with 4x SDI/BNC                                                                                                       | <ul style="list-style-type: none"> <li>Multi-channel Capture System</li> </ul>                                                                                                                   |
| <b>Special Network Card</b><br>e.g. Multiport or 10 Gbps                                                                                                | <ul style="list-style-type: none"> <li>Proxy and Firewall Applications</li> <li>Intranet Server</li> </ul>                                                                                       |
| <b>Fieldbus Card</b><br>e.g. EtherCAT, Profibus, CAN, Modbus, etc.                                                                                      | <ul style="list-style-type: none"> <li>Industry Automation</li> <li>Conveyor Technology</li> <li>Building Automation</li> </ul>                                                                  |
| <b>Multi I/O Card</b><br>e.g. 8x COM-Port, DA/AD converter, general-purpose input/output (GPIO)                                                         | <ul style="list-style-type: none"> <li>Point of Sales (POS)</li> <li>Vending Machine</li> <li>Automation / Control System</li> </ul>                                                             |
| <b>Receiver Card</b><br>e.g. for SAT, DVB-T2, Cable                                                                                                     | <ul style="list-style-type: none"> <li>Home Entertainment</li> </ul>                                                                                                                             |



Two PCI-Express Slots: X16 and X1

## Optional Shuttle accessory for powerful graphics cards

With the **Shuttle XPC accessory PRC02** you can equip this PC with a second DC input to connect a second power adapter. This allows the use of even more powerful graphics cards. Graphics cards with 75W power dissipation are supported as standard. With an additional 90W or 180W power supply unit, this value increases to 150W or 225W.



| Optional Shuttle Accessory                                       | Graphics Power Connector | Graphics TDP Power |
|------------------------------------------------------------------|--------------------------|--------------------|
| <b>XB860G2</b> without accessory                                 | n.a.                     | max. 75 Watts      |
| ... with <b>PRC02</b> and <b>PE90</b> (2nd power adapter: 90W)   | 6-pin power connector    | max. 150 Watts     |
| ... with <b>PRC02</b> and <b>PE180</b> (2nd power adapter: 180W) | 8-pin power connector    | max. 225 Watts     |



Graphics Power Connector

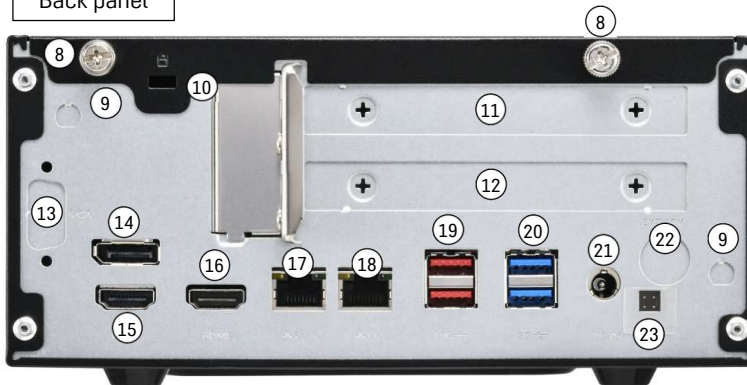
## Front and Back Panel and Mainboard

Front panel



1. 2x USB 2.0 (black)
2. USB 3.2 Gen 1 Type-A (blue)
3. Microphone input
4. Headphones output
5. USB 3.2 Gen 1 Type-C
6. Power button with Power LED indicator
7. LED indicator for storage activity

Back panel



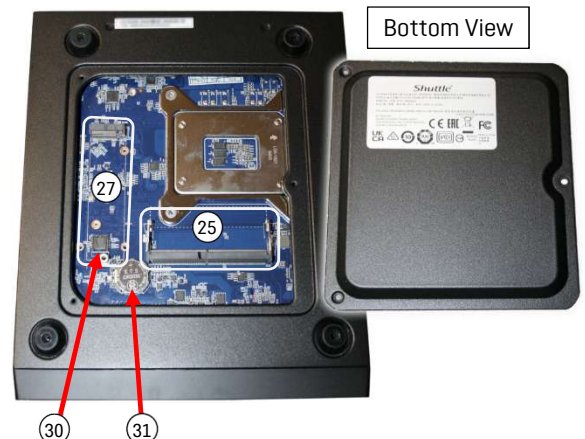
8. 2x Thumbscrew
9. 2x Perforation for optional WLAN antenna
10. Hole for Kensington Lock
11. PCI-Express X1 expansion slot
12. PCI-Express X16 expansion slot
13. Optional VGA port (accessory PVG01)
14. DisplayPort 1.4
15. HDMI 2.0 port
16. HDMI 2.1 port (support 8K/60)
17. 2.5G LAN port (RJ45)
18. Gigabit LAN port (RJ45)
19. 2x USB 3.2 Gen 2 port (red)
20. 2x USB 3.2 Gen 1 port (blue)
21. DC-in connector for power adapter
22. Optional: second DC-in connector (PRC02) for second 180W power adapter (PE180)
23. 4-pin connector (2.54 mm pitch) for external power button, Clear CMOS button and 5V DC voltage

Mainboard



24. PCI-Express expansion slots (X16 and X1)
25. SO-DIMM socket for DDR5 memory (the second socket is on the bottom side)
26. CPU socket for LGA1851 processors
27. M.2-2280M slots for SSD modules (the third slot is on the bottom side)
28. M.2-2230E slot for optional WLAN module
29. Heatsink of the CPU heat-pipe cooling system
30. Flash EPROM for the BIOS
31. CMOS battery
32. Always-on-Jumper (JP1)

Bottom View



## Product Comparison: Shuttle XPC slim PCs with Intel 800 series chipset

| MODEL                | DH810(S) *                                                                                                                                                                                                                                    | DB860                                                                                                                                                                                                                            | XH810                                                                                                                                                                                                                        | <b>XB860G2</b>                                                                                                                                                                                |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor Support    | Intel Core Ultra Processors 2xx "Arrow Lake-S"<br>Socket LGA1851, TDP max. 65W                                                                                                                                                                |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                              |                                                                                                                                                                                               |
| OS Support           | Windows 11 & Linux – 64-bit                                                                                                                                                                                                                   |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                              |                                                                                                                                                                                               |
| Chipset              | Intel H810<br>Supports Triple Display                                                                                                                                                                                                         | Intel B860<br>Supports <b>Quad</b> Display                                                                                                                                                                                       | Intel H810<br>Supports Triple Display                                                                                                                                                                                        | Intel B860<br>Supports <b>Quad</b> Display                                                                                                                                                    |
| Memory               | Supports max. 2x 48 GB DDR5-5600 S0-DIMM (262 Pins)                                                                                                                                                                                           |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                              |                                                                                                                                                                                               |
| PCIe Slots           | —                                                                                                                                                                                                                                             | —                                                                                                                                                                                                                                | —                                                                                                                                                                                                                            | 1x PCIe Gen5 x16<br>1x PCIe Gen4 x1                                                                                                                                                           |
| Drive Bays           | 1x 2.5" bay<br>supports SATA Raid 0+1                                                                                                                                                                                                         | 1x 2.5" bay<br>supports SATA Raid 0+1                                                                                                                                                                                            | 2x 2.5" bay (or 1x 3.5")<br>supports SATA Raid 0+1                                                                                                                                                                           | —                                                                                                                                                                                             |
| M.2 Slots for SSDs   | 1x M.2-2280 (PCIe X4, SATA)                                                                                                                                                                                                                   | 1x M.2-2280 (PCIe X4, SATA)                                                                                                                                                                                                      | 1x M.2-2280 (PCIe X4, SATA)<br>1x M.2-2280 (PCIe X2, USB3.2)                                                                                                                                                                 | 3x <b>M.2-2280</b> (PCIe X4)<br>one also supports SATA                                                                                                                                        |
| Front Panel Ports    | 2x USB 3.2 Gen 2 (1x Type-C)<br>1x USB 2.0<br>2x Audio<br>Power-Button<br>Power-LED, HDD-LED                                                                                                                                                  | 4x USB 3.2 Gen 2 (1x Type-C)<br>2x Audio<br>Power-Button<br>Power-LED, HDD-LED                                                                                                                                                   | 2x USB 3.2 Gen 1 (1x Type-C)<br>2x USB 2.0<br>2x Audio<br>Power-Button<br>Power-LED, HDD-LED                                                                                                                                 | 2x USB 3.2 Gen 1 (1x Type-C)<br>2x USB 2.0<br>2x Audio<br>Power-Button<br>Power-LED, HDD-LED                                                                                                  |
| Back Panel Ports     | HDMI 2.1 (8K)<br>DisplayPort 1.4 *<br>USB4/DisplayPort (USB-C) *<br>2x USB 3.2 Gen 1 (blue)<br>2x USB 2.0<br>2x Intel LAN (1G and 2.5G) *<br>2x COM RS232 (1x RS422/485) *<br>DC input (supports 12V and 19V)<br>Header for ext. power button | HDMI 2.1 (8K)<br>HDMI 2.0<br>DisplayPort 1.4<br>USB4/DisplayPort (USB-C)<br>4x USB 3.2 Gen 2 (red)<br>2x Intel LAN (1G and 2.5G)<br>2x COM RS232 (1x RS422/485)<br>DC input (supports 19.5V)<br>Header for ext. power button     | HDMI 2.1 (8K)<br>HDMI 2.0a<br>DisplayPort 1.4<br>2x USB 3.2 Gen 2 (red)<br>2x USB 2.0<br>2x Intel LAN (1G and 2.5G)<br>3x <b>COM RS232</b> (1x RS422/485)<br>DC input (supports 12V and 19V)<br>Header for ext. power button | HDMI 2.1 (8K)<br>HDMI 2.0a<br>DisplayPort 1.4<br>2x USB 3.2 Gen 2 (red)<br>2x USB 3.2 Gen 1 (blue)<br>2x Intel LAN (1G and 2.5G)<br>DC input (supports 19.5V)<br>Header for ext. power button |
| Power Adap.          | 120 W / 19 V<br>DC-Input supports 12V and 19V                                                                                                                                                                                                 | 180 W / 19.5 V<br>DC-Input supports 12V and 19V                                                                                                                                                                                  | 120 W / 19 V<br>DC-Input supports 12V and 19V                                                                                                                                                                                | 180 W / 19.5 V                                                                                                                                                                                |
| Optional Accessories | Vertical stand ( <b>PS02</b> )<br>Power Button cable ( <b>CXP01</b> )<br>VGA-Port ( <b>PVG01</b> )<br>WLAN kit ( <b>WLN-M12</b> )<br>4G kit ( <b>WWN03</b> )<br>DIN-Rail Kit ( <b>DIR01</b> )<br>Rack-Mount Kit ( <b>PRM01</b> )              | Vertical stand ( <b>PS02</b> )<br>Power Button cable ( <b>CXP01</b> )<br>VGA-Port ( <b>PVG01</b> )<br>WLAN kit ( <b>WLN-M12</b> )<br>4G kit ( <b>WWN03</b> )<br>DIN-Rail Kit ( <b>DIR01</b> )<br>Rack-Mount Kit ( <b>PRM01</b> ) | Vertical stand ( <b>PS01</b> )<br>Power Button cable ( <b>CXP01</b> )<br>3x <b>COM Ports</b> ( <b>PCM31</b> )<br>VGA-Port ( <b>PVG01</b> )<br>WLAN kit ( <b>WLN-M12</b> )<br>4G/5G kit ( <b>WWN04</b> )                      | Power Button cable ( <b>CXP01</b> )<br>VGA-Port ( <b>PVG01</b> )<br>WLAN kit ( <b>WLN-M12</b> )<br>4G/5G kit ( <b>WWN04</b> )<br>Upgrade kit supports second power adapter ( <b>PRC02</b> )   |
| VESA Mount           | included                                                                                                                                                                                                                                      | included                                                                                                                                                                                                                         | included                                                                                                                                                                                                                     | included                                                                                                                                                                                      |
| Chassis Dimensions   | 19 x 16.5 x 4.3 cm (ca. 1.3 L)                                                                                                                                                                                                                | 19 x 16.5 x 4.3 cm (ca. 1.3 L)                                                                                                                                                                                                   | 23.8 x 20 x 7.25 cm (ca. 3.5 L)                                                                                                                                                                                              | 23.7 x 20 x 9.5 cm (ca. 4.5 L)                                                                                                                                                                |
| Front View           |                                                                                                                                                            |                                                                                                                                               |                                                                                                                                          |                                                                                                          |
| Back View            | <br>                                                                    |                                                                                                                                               |                                                                                                                                          |                                                                                                          |

\* DH810S features 2x DisplayPort 1.4, but no USB4, 2.5G LAN and only one Serial COM port (RS232)

## Shuttle Product Comparison with the predecessor: XB860G2 and XH610G2

| MODEL                | <b>XB860G2</b>                                                                                                                                                                                                                            | <b>XH610G2</b>                                                                                                                                                                                                                                                                      |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor Support    | Intel Core Ultra Processors 2xx<br>"Arrow Lake-S"<br>Socket LGA1851, TDP max. 65W                                                                                                                                                         | Intel Core Processors Gen 12/13/14<br>"Alder Lake-S" / "Raptor Lake-S (Refr)"<br>Socket LGA1700, TDP max. 65W                                                                                                                                                                       |
| OS Support           | Windows 11 & Linux – 64-bit                                                                                                                                                                                                               | Windows 10/11 & Linux – 64-bit                                                                                                                                                                                                                                                      |
| Chipset              | Intel B860<br>Supports Quad Display                                                                                                                                                                                                       | Intel H610<br>Supports Triple Display                                                                                                                                                                                                                                               |
| Memory (max.)        | 2x 48 GB DDR5-5600<br>SO-DIMM (262 Pins)                                                                                                                                                                                                  | 2x 32 GB DDR4-3200/2666/2400<br>SO-DIMM (260 pins)                                                                                                                                                                                                                                  |
| Drive Bays           | —                                                                                                                                                                                                                                         | 1x 2.5" bay (SATA v3.0)<br>Max. 9.5 mm height                                                                                                                                                                                                                                       |
| PCI-Express Slot X16 | PCI-Express Gen 5.0 X16<br>Max. Length/Width: 205/45 mm<br>Max. TDP: 75 W                                                                                                                                                                 | PCI-Express Gen 5.0 X16<br>Max. Length/Width: 205/45 mm<br>Max. TDP: 75 W                                                                                                                                                                                                           |
| PCI-Express Slot X1  | PCI-Express Gen 4.0 X1                                                                                                                                                                                                                    | PCI-Express Gen 3.0 X1                                                                                                                                                                                                                                                              |
| M.2 Slots for SSDs   | M.2-2280M (PCIe Gen4 x4 / SATA)<br>M.2-2280M (PCIe Gen4 x4)<br>M.2-2280M (PCIe Gen5 x4)                                                                                                                                                   | M.2-2280M (PCIe Gen3 X4 / SATA)<br>M.2-2280M (SATA only)                                                                                                                                                                                                                            |
| M.2 Slots for WLAN   | M.2-2230E (for WLAN modules)                                                                                                                                                                                                              | M.2-2230E (for WLAN modules)                                                                                                                                                                                                                                                        |
| Front Panel Ports    | 2x USB 3.2 Gen 1 (1x Type-C)<br>2x USB 2.0 (black)<br>2x Audio (Mic.+Line out)<br>Power-Button<br>Power-LED, HDD-LED                                                                                                                      | 2x USB 3.2 Gen 1 (5 Gbps, blue)<br>2x USB 2.0 (black)<br>2x Audio (Mic.+Line out)<br>Power-Button<br>Power-LED, HDD-LED                                                                                                                                                             |
| Back Panel Ports     | HDMI 2.1 (8K)<br>HDMI 2.0<br>DisplayPort 1.4<br>2x USB 3.2 Gen 2 (red)<br>2x USB 3.2 Gen 1 (blue)<br>2x Intel LAN (1G and 2.5G)<br>DC input (supports 19.5V)<br>Connector for ext. Power Button                                           | HDMI 2.0a/1.4b*)<br>DisplayPort 1.4<br>2x USB 3.2 Gen 1 (5 Gbps, blue)<br>2x USB 2.0 (black)<br>1x LAN (1G)<br>Optional COM or VGA port **)<br>DC input (supports 19.5V)<br>Connector for ext. Power Button                                                                         |
| Power Adapter        | 180 W / 19.5 V                                                                                                                                                                                                                            | 180 W / 19.5 V                                                                                                                                                                                                                                                                      |
| Optional Accessories | WLAN-Kit mit Antennen ( <b>WLN-M12</b> )<br>Power Button Kabel ( <b>CXP01</b> )<br>D-Sub/VGA Port Adapter( <b>PVG01</b> )<br>4G/5G kit with antennas ( <b>WWN04</b> )<br>Upgrade kit supports second power adapter ( <b>PRC02+PE180</b> ) | WLAN-Kit mit Antennen ( <b>WLN-M12</b> )<br>Power Button Kabel ( <b>CXP01</b> )<br>COM Port Adapter ( <b>PCP11</b> ) **)<br>D-Sub/VGA Port Adapter( <b>PVG01</b> ) **)<br>4G kit with antennas ( <b>WWN03</b> )<br>Upgrade kit supports second power adapter ( <b>PRC02+PE180</b> ) |
| VESA Mount           | included                                                                                                                                                                                                                                  | included                                                                                                                                                                                                                                                                            |
| Chassis Dimensions   | 23.7 x 20 x 9.5 cm (ca. 4.5 L)                                                                                                                                                                                                            | 23.7 x 20 x 9.5 cm (ca. 4.5 L)                                                                                                                                                                                                                                                      |
| Front View           |                                                                                                                                                        |                                                                                                                                                                                                 |
| Back View            |                                                                                                                                                        |                                                                                                                                                                                                 |

## SHUTTLE XPC SLIM BAREBONE XB860G2 — SPECIFICATIONS

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHASSIS                   | <p>Slim 3.5-litre chassis, colour: black</p> <p>Dimensions: 238 x 200 x 72.5 mm (LWH without rubber feet and thumbscrews) = ca. 3.5-litre</p> <p>Length including thumbscrews: 250 mm</p> <p>Height including rubber feet: 73.3 mm</p> <p>Weight: 1.9 kg net, 3.2 kg gross</p> <p>Hole for Kensington Lock at the backpanel</p> <p>Operation position horizontal or vertical with the included VESA mount</p>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| POWER ADAPTER             | <p>External 180 W power adapter (fanless)</p> <p>Input: 100~240 V AC, 50~60 Hz, max. 2.5 A</p> <p>Output: 19.5 V DC, max. 9.23 A, max. 180 W output wattage</p> <p>AC Connector with protective-earth contacts, cable length: 1.7 m</p> <p>DC Connector: 5.5 / 2.5 mm (outer/inner diameter)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| OPERATING SYSTEM          | <p>This system comes without operating system.</p> <p>It is compatible with Windows 11 and Linux (64-bit)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PROCESSOR SUPPORT         | <p>Processor Socket LGA1851</p> <p>Supports Intel Core Ultra 200 series 9/7/5 processors</p> <p>Code name "Arrow Lake-S"</p> <p>Maximum supported processor power consumption (Base TDP) = 65 W</p> <p>Does not support the unlock-function of Intel K-Series processors.</p> <p>Up to 24 cores (8 Performance-cores and 16 Efficient-cores)</p> <p>Neural Processing Unit (NPU) with 13 TOPS AI-Performance</p>                                                                                                                                                                                                                                                                                                                                                                                                              |
| PROCESSOR COOLING         | <p>Processor cooling with heat-pipe technology and two fans (6cm)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| MAINBOARD, CHIPSET, BIOS  | <p>Mainboard in Mini-ITX form factor 17 x 17 cm</p> <p>Chipset: Intel® B860</p> <p>AMI BIOS in 32 MB EEPROM</p> <p>All capacitors are high quality solid capacitors</p> <p>Supports hardware monitoring and Watchdog functionality</p> <p>Supports Unified Extensible Firmware Interface (UEFI)</p> <p>Supports power on after power failure <b>[1]</b></p> <p>Supports Firmware TPM v2.0 (fTPM)</p>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MEMORY SUPPORT            | <p>2x SO-DIMM slot with 262 pins</p> <p>Supports DDR5-5600 (PC5-44800) SDRAM at 1.1 V</p> <p>Supports Dual Channel mode</p> <p>Supports a maximum of 48 GB per DIMM, maximum total size: 96 GB</p> <p>Note: Supports two unbuffered DIMM modules (no ECC or registered)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| INTEGRATED GRAPHICS       | <p>The features of the integrated Intel graphics function with Xe cores depend on the processor type used. <b>[4]</b></p> <p>The PC features these graphics outputs:</p> <ul style="list-style-type: none"> <li>- HDMI 2.1 supports 8K UHD with max. 7680x4320 Pixel at 60 Hz (4320p60)</li> <li>- HDMI 2.0 supports 4K UHD with max. 4096x2160 Pixel at 60 Hz (2160p60)</li> <li>- DisplayPort supports 4K UHD with max. 4096x2160 Pixel at 60 Hz (2160p60)</li> <li>- optional one analog Sub-D/VGA port (optional Accessory PVG01)</li> </ul> <p>Supports up to four independent displays with the integrated graphics function.</p> <p>If the HDMI 2.1 port is operated with an 8K monitor, the second HDMI port cannot be used.</p> <p>DisplayPort and HDMI support multi-channel digital audio over the same cable.</p> |
| TWO PCI-E EXPANSION SLOTS | <p>The pre-installed 90° Riser Card provides two PCI-Express expansion slots:</p> <p>1x PCI-Express X16 Gen 5 slot</p> <p>1x PCI-Express X1 Gen 4 slot</p> <p>Supports dual-slot (double-width) graphics cards (occupies the second PCI-Express slot)</p> <p>The used PCIe X16 expansion card must meet the following conditions:</p> <ol style="list-style-type: none"> <li>1) Maximum dimensions: 205 mm x 120 mm x 45 mm</li> <li>2) Maximum power consumption: 75 W (optional up to 225 W <b>[8]</b>)</li> </ol> <p>For special purposes, the mainboard provides a 5V auxiliary voltage (max. 2 A) via 4-pin Molex connector.</p>                                                                                                                                                                                         |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AUDIO                         | <p>Audio Realtek® ALC 888S High-Definition Audio</p> <p>Two analog audio connectors (3.5 mm) on the front panel:</p> <ol style="list-style-type: none"> <li>1) 2-channel line-out (head-phones)</li> <li>2) microphone input</li> </ol> <p>Digital multi-channel audio output: by HDMI and DisplayPort</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DUAL LAN                      | <p>Dual network with two RJ45 ports with two status LEDs each</p> <p>Used network chips:</p> <ol style="list-style-type: none"> <li>1) Intel 226LM (left RJ45 port) supports 100 / 1.000 / 2.500 Mbps data transfer rate</li> <li>2) Intel 219LM (right RJ45 port) supports 10 / 100 / 1.000 Mbps data transfer rate</li> </ol> <p>Supports WAKE ON LAN (WOL) <b>[7]</b></p> <p>Supports network boot by Preboot eXecution Environment (PXE)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| THREE M.2-2280M SSD SLOT      | <p>Three M.2 2280M slots provides the following interfaces:</p> <ul style="list-style-type: none"> <li>- Slot 1: supports PCIe Gen4 x4 (NVMe) and SATA (max. 6 Gbps)</li> <li>- Slot 2: supports PCIe Gen4 x4 (NVMe) and USB3.2 Gen2 (max. 10 Gbps)</li> <li>- Slot 3: supports PCIe Gen5 x4 (NVMe) - access from the bottom side <b>[9]</b></li> </ul> <p>It supports M.2 cards with a width of 22 mm and a length of 80 mm (type 2280).</p> <p>Use the supplied heat sink kit to install the M.2 SSD on the bottom side. <b>[9]</b></p>                                                                                                                                                                                                                                                                                                                                                  |
| M.2-2230E SLOT FOR WLAN CARDS | <p>Interfaces: PCI-Express Gen4 X1, USB 2.0 and CNVi</p> <p>Supports M.2 cards with a width of 22 mm and a length of 30 mm (type 2230)</p> <p>Supports WLAN expansion cards</p> <p>Optional Shuttle accessory: WLN-M12 <b>[3]</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| FRONT PANEL CONNECTORS        | <p>Microphone input</p> <p>Audio Line-out (headphones)</p> <p>1x USB 3.2 Gen 1 Type A (max. 5 Gbps, blue)</p> <p>1x USB 3.2 Gen 1 Type C (max. 5 Gbps)</p> <p>2x USB 2.0 (black)</p> <p>Power button</p> <p>Power LED (blue)</p> <p>HDD LED (yellow)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BACK PANEL CONNECTORS         | <p>1x HDMI 2.1 (right side)</p> <p>1x HDMI 2.0 (left side)</p> <p>1x DisplayPort 1.4a <b>[2]</b></p> <p>2x USB 3.2 Gen 2 Type A (max. 10 Gbps, red)</p> <p>2x USB 3.2 Gen 1 Type A (max. 5 Gbps, blue)</p> <p>1x 2.5G LAN (RJ45 port, Intel 226LM chip)</p> <p>1x Gigabit LAN (RJ45 port, Intel 219LM chip)</p> <p>1x DC-input connector for external power adapter (supports 19.5V only)</p> <p>1x 4-pin connector (2.54 mm pitch) supports:</p> <ul style="list-style-type: none"> <li>- external power on button (see optional accessory CXP01)</li> <li>- Clear CMOS function</li> <li>- +5V DC voltage for external components</li> </ul> <p>2x Perforation for Wireless LAN antennas</p> <p>1x Perforation for optional VGA port (optional Accessory PVG01)</p> <p>1x Hole for Kensington Lock</p>                                                                                   |
| OTHER ONBOARD CONNECTORS      | <p>Jumper J1 for power-on-after-power-fail (hardware solution) <b>[1]</b></p> <p>Front connectors for power button, LEDs, USBs, audio ports</p> <p>4-pin fan connector (occupied by the CPU cooling system)</p> <p>SATA power connectors: 5V (4-pin) and 12V (3-pin)</p> <p>Header for an optional VGA port "VGA1" (optional Accessory PVG01)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SUPPLIED ACCESSORIES          | <p>Multi-language installation guide (EN, DE, FR, ES, JP, KR, SC, TC)</p> <p>DVD with Windows 11 driver software and manuals in PDF format</p> <p>External power adapter with ca. 1.8m AC power cord (with protective-earth contacts)</p> <p>Protector cap for the CPU socket (do not use if heat-pipe or fan is mounted)</p> <p>CPU heatpipe cooling system pre-installed with heatsink compound</p> <p>Heat sink kit for SSD card with screws (for the M.2-2280 slot on the underside)</p> <p>supplied with four thermal pads, 20x70mm, in various thicknesses <b>[9]</b></p> <p>VESA mount (metal) supports 75x75 and 100x100 mm VESA standard</p> <p>Four screws M3 x 5 mm (screws together VESA mount and PC)</p> <p>Four screws M4 x 10 mm (to affix VESA mount on the back of a monitor)</p> <p>Four screws (M3x5, silver) for installation of three M.2-SSDs and one WLAN card</p> |

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OPTIONAL ACCESSORIES         | <b>CXP01:</b> adapter cable for external power button<br><b>PVG01:</b> Adapter for a VGA port<br><b>WLN-M12</b> (802.11ax, Wifi 6): WLAN module with two antennas <b>[3]</b><br><b>WWN04:</b> Adapter/Antenna kit for 4G/5G expansion card<br><b>PRC02:</b> Expansion kit to support an additional power adapter (PE90 or PE180) for more powerful graphics cards <b>[6]</b>                                                                                                                                                                                                   |
| ENVIRONMENTAL SPECIFICATIONS | Operating temperature range: 0~50°C <b>[5]</b><br>Relative humidity range: 10~90% (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| CERTIFICATIONS / COMPLIANCE  | EMI: CE, UKCA, FCC, BSMI, RCM, VCCI<br>Safety: CB 60950/62368, cTUVus, BSMI<br>Other: RoHS, Energy Star, ErP<br>This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the conformity by the EU directives:<br>(1) 2004/108/EC relating to electromagnetic compatibility (EMC),<br>(2) 2006/95/EC relating to Electrical Equipment designed for use within certain voltage limits (LVD),<br>(3) 2009/125/EC relating to ecodesign requirements for energy-related products (ErP) |

## [1] Power-on-after-power-fail:

The BIOS setup provides a "power-on-after-power-fail" function that can be found under "Power Management Configuration". As the name indicates, this function determines the PC's behaviour after power failure: (1) unconditional power on, (2) restore former status or (3) keep system turned off. As a matter of the nature of this function, it may fail after short power failures. This is why this PC also comes with a hardware-based solution. By removing the appropriate jumper JP1, the system will start unconditionally once power is supplied.

## [2] How to convert DisplayPort into HDMI/DVI

The DisplayPort output supports Dual-mode (DP++) and can be converted to HDMI or DVI by an additional, passive adapter cable. For example:

DELOCK 82590: 1m, DisplayPort (male, 20p) to HDMI-A (male, 19p)

DELOCK 82435: 5m, DisplayPort (male, 20p) to DVI-D (male, 24p)

The integrated graphics automatically detects the connected display and puts out the appropriate electric signal - either DisplayPort (without an adapter) or HDMI/DVI (with an adapter). Please note that DVI/HDMI monitors are only operated in single-link mode, i.e. max. 1920x1200 with 60 Hz. However, a monitor with a DisplayPort connector cannot be connected to the HDMI port with a simple, passive adapter.

**[3] Optional Wireless LAN module:** This slim PC can optionally be upgraded with WLAN/Bluetooth functionality. Shuttle offers the suitable accessory kit WLN-M12, consisting of a WLAN card in M.2-2230 format and two external antennas with appropriate antenna cables.

**[4] Intel processors without integrated graphics** (ID ends with "F", e.g. Core Ultra 7 265F) are not compatible.

**[5] High ambient temperature** - For high ambient temperature over 40°C we strongly recommend to use SSDs instead of hard disk drives.

**[6] Expansion Kit PRC02** - With the Shuttle XPC accessory PRC02 you can equip this PC with a second DC input to connect a second power adapter. This allows the use of even more powerful graphics cards. Graphics cards with 75W power dissipation are supported as standard. With an additional 90W or 180W power supply unit, this value increases to 150W or 225W.

## [7] Note on the Wake-on-LAN function

Summary: Please use the 2.5G network connection for the WOL function.

Explanation: This PC has two network connections (LAN ports):

(1) 1.0G (Intel 219 chip)

(2) 2.5G (Intel 226 chip)

The PC supports the Wake-on-LAN function (WOL) to start the switched-off computer (from S5 mode) via the network. The following settings can be found in the 'Advanced' BIOS setup:

(1) Wake Up by LAN = Enabled (this activates WOL)

(2) Power-On after Power-Fail = Power On by LAN

The second setting defines the behaviour after a power failure - in this case, the PC should not switch on immediately as soon as power is restored, but should wait for the power-on signal via the network connection. However, after a power failure, switching on via the network (WOL) only works via the 2.5G network port for technical reasons. Do not use the 1.0G network port for the WOL function if you expect that the PC's power supply could be interrupted.

## [8] Expansion Kit PRC02

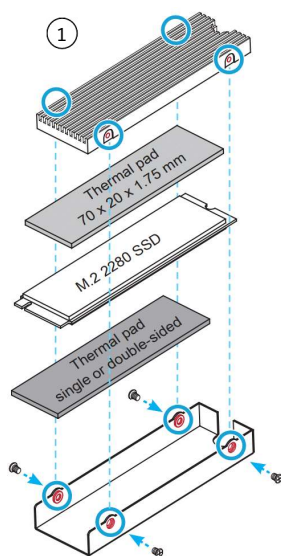
With the Shuttle XPC accessory PRC02 you can equip this PC with a second DC input to connect a second power adapter. This allows the use of even more powerful graphics cards. Graphics cards with 75W power dissipation are supported as standard. With an additional 90W or 180W power supply unit, this value increases to 150W or 225W.

### [9] M.2 slot on the bottom

There is a case cover on the bottom of the PC, under which there is a third M.2 slot for SSD cards in M.2-2280 format. Since this slot is not located in the airflow of the cooling fan (like the other two M.2 slots), this SSD card must be specially cooled. For this purpose, a two-piece heat sink kit with four 20 x 70 mm thermal pads in various thicknesses is included.

(1) Before installing the M.2 SSD card in the heat sink, a 1.75 mm thick thermal pad must be mounted at the top and at the bottom. If the SSD card is equipped with chips on both sides, then choose the 0.5 mm thick thermal pad for the bottom.

(2) After installing the SSD card in the M.2 slot, mount the 3 mm thick thermal pad on top to create a thermal bridge to the case cover.



## INTEL CORE ULTRA GEN. 2 DESKTOP PROCESSOR FAMILY

Socket LGA1851, Code Name "Arrow Lake-S" processor overview (Date: May 2025)

Each processor containing an NPU capable of upto 13 TOPS

Processors with a TDP of more than 65W and processors without graphics function (ID ends with "F") are not supported by XB860G2 (marked in red).

| PROCESSOR    | MODEL | P-CORES / THREADS | P-CORES Base/Turbo2.0 | E-CORES | E-CORES Base/Turbo2.0 | SMART CACHE | BASE TDP | MEMORY SUPPORT | Intel® Graphics Xe Cores / Clock Rate |
|--------------|-------|-------------------|-----------------------|---------|-----------------------|-------------|----------|----------------|---------------------------------------|
| Core Ultra 9 | 285K  | 8 / 8             | 3.7 – 5.5 GHz         | 16      | 3.2 – 4.6 GHz         | 36 MB       | 125 W    | DDR5-5600/6400 | 4 Cores, max. 2.00 GHz                |
|              | 285   | 8 / 8             | 3.7 – 5.4 GHz         | 16      | 1.9 – 4.6 GHz         | 36 MB       | 65 W     | DDR5-5600/6400 | 4 Cores, max. 2.00 GHz                |
|              | 285T  | 8 / 8             | 1.4 – 5.3 GHz         | 16      | 1.2 – 4.6 GHz         | 36 MB       | 35 W     | DDR5-5600/6400 | 4 Cores, max. 2.00 GHz                |
| Core Ultra 7 | 265K  | 8 / 8             | 3.9 – 5.4 GHz         | 8       | 3.3 – 4.6 GHz         | 30 MB       | 125 W    | DDR5-5600/6400 | 4 Cores, max. 2.00 GHz                |
|              | 265KF | 8 / 8             | 3.9 – 5.4 GHz         | 8       | 3.3 – 4.6 GHz         | 30 MB       | 125 W    | DDR5-5600/6400 | None                                  |
|              | 265   | 8 / 8             | 2.4 – 5.2 GHz         | 8       | 1.8 – 4.6 GHz         | 30 MB       | 65 W     | DDR5-5600/6400 | 4 Cores, max. 1.95 GHz                |
|              | 265F  | 8 / 8             | 2.4 – 5.2 GHz         | 8       | 1.8 – 4.6 GHz         | 30 MB       | 65 W     | DDR5-5600/6400 | None                                  |
|              | 265T  | 8 / 8             | 1.5 – 5.2 GHz         | 8       | 1.2 – 4.6 GHz         | 30 MB       | 35 W     | DDR5-5600/6400 | 4 Cores, max. 1.95 GHz                |
| Core Ultra 5 | 245K  | 6 / 6             | 4.2 – 5.2 GHz         | 8       | 3.6 – 4.6 GHz         | 24 MB       | 125 W    | DDR5-5600/6400 | 4 Cores, max. 1.90 GHz                |
|              | 245KF | 6 / 6             | 4.2 – 5.2 GHz         | 8       | 3.6 – 4.6 GHz         | 24 MB       | 125 W    | DDR5-5600/6400 | None                                  |
|              | 245   | 6 / 6             | 3.5 – 5.1 GHz         | 8       | 3.0 – 4.5 GHz         | 24 MB       | 65 W     | DDR5-5600/6400 | 4 Cores, max. 1.90 GHz                |
|              | 245T  | 6 / 6             | 2.5 – 5.1 GHz         | 8       | 1.9 – 4.5 GHz         | 24 MB       | 35 W     | DDR5-5600/6400 | 4 Cores, max. 1.90 GHz                |
|              | 235   | 6 / 6             | 3.4 – 5.0 GHz         | 8       | 2.9 – 4.4 GHz         | 24 MB       | 65 W     | DDR5-5600/6400 | 3 Cores, max. 2.00 GHz                |
|              | 235T  | 6 / 6             | 2.2 – 5.0 GHz         | 8       | 1.6 – 4.4 GHz         | 24 MB       | 35 W     | DDR5-5600/6400 | 3 Cores, max. 2.00 GHz                |
|              | 225   | 4 / 4             | 3.3 – 4.9 GHz         | 4       | 1.8 – 4.4 GHz         | 20 MB       | 65 W     | DDR5-5600/6400 | 2 Cores, max. 1.80 GHz                |
|              | 225F  | 4 / 4             | 3.3 – 4.9 GHz         | 4       | 2.7 – 4.4 GHz         | 20 MB       | 65 W     | DDR5-5600/6400 | None                                  |
|              | 225T  | 4 / 4             | 2.5 – 4.9 GHz         | 4       | 2.7 – 4.4 GHz         | 20 MB       | 35 W     | DDR5-5600/6400 | 2 Cores, max. 1.80 GHz                |

**K** = unlocked, **T** = Power optimized lifestyle, **F** = without integrated graphics, **Base TDP** = Base Thermal Design Power (max. Base Power Consumption).

Note: The Shuttle XPC slim Barebone **XB860G2** does not support the Unlock-function of Intel **K-Series** processors.

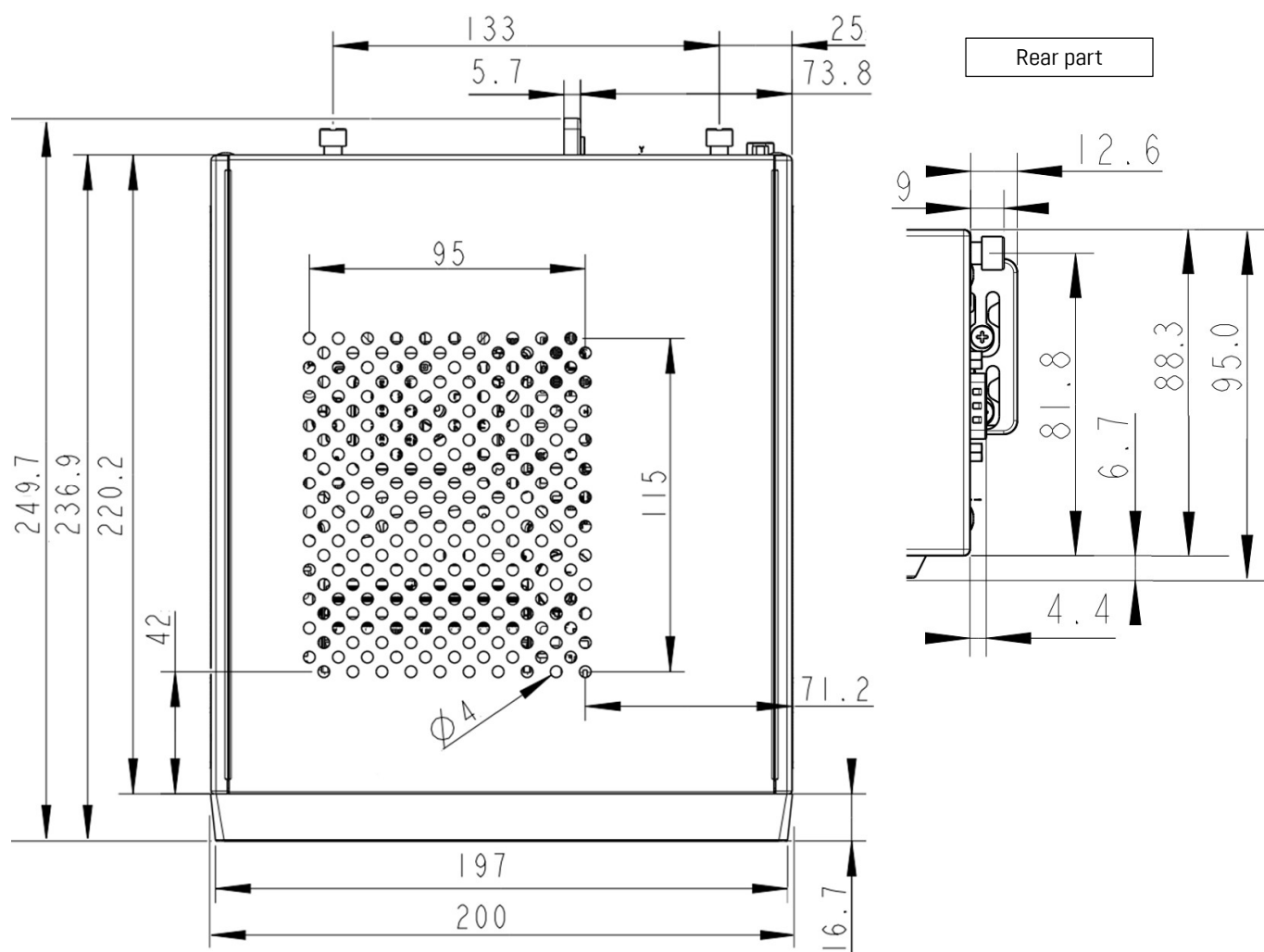
**P-Cores**: Performance-Cores (without Hyper-Threading/SMT support), **E-Cores**: Efficient-Cores

**Core Clock**: the listed core frequency ranges from Base Frequency to Turbo Boost 2.0 Frequency (Turbo Boost 3.0/TVB Frequency is not mentioned here)

**Base TDP**: Processor Base Power dissipation that the processor is validated to not exceed at Base Frequency (Max. Turbo Power is not mentioned here)

Please refer to the support list for detailed processor support information at [global.shuttle.com](https://global.shuttle.com).

### Chassis drawing XB860G2:



### Chassis Drawing XB860G2:

With VESA mount (included)

