

Fully customisable SB2 Embedded Box Computer



Overview

The SB2 Box Computer is a robust, low power and fanless computer that can utilise a choice of Intel® processors. The chassis is built using Stainless Steel (430) with attachable mounts which enable it to be fixed in any position, including rear mounting to a monitor. The SB2 Box Computer is an ideal rugged industrial replacement to commercial grade computers – all in a compact footprint. See all of the specifications below, and if something isn't listed that you may require, contact us and let us know as we may already have the solution you need!



General Specifications

ELECTRICAL AND ELECTRONIC

Supply Voltage	9-36VDC
Power Consumption	See Appendix A
Motherboard	See Appendix A

MECHANICAL

Material	Stainless Steel (430)
Mounting	VESA 75 mount
Dimensions (mm)	See Dimensions on Page 3
Weight (g)	2Kg

ENVIRONMENTAL

Operating Temperature	-5°C to +50°C *
	* Extendable to -25°C to +65°C
Storage Temperature	-20°C to +70°C
Relative Humidity	95% non-condensing
IP Seal Level	IP22

WARRANTY

Warranty Period	3 Years standard return to base. Extendable to 5 Years if required
-----------------	--



APPENDIX A

MOTHERBOARD	EL	IC
Form Factor	Mini-ITX	3.5"
CPU	Intel® Celeron® J6412 2.0Ghz	Intel® Core™ i5-1135G7 2.40Ghz
Core Number	4	4
Chipset	-	Intel® Tiger Lake UP3 SoC
BIOS	AMI UEFI	AMI UEFI
Graphics	Intel® UHD Graphics for 10 th Gen Intel® Processors	Intel® Iris® Xe Graphics
HDMI	1 x Supports HDMI 1.4b, max resolution 4096 x 2160 @ 24Hz	1 x Supports HDMI 2.0, max resolution 4096 x 2160 @ 60Hz
DisplayPort	N/A	1 x DisplayPort++, max resolution 4096 x 2304 @ 60Hz
VGA	N/A	N/A
RAM	Up to 32GB (DDR4-2666)	Up to 64GB (DDR4-3200)
SATA	1 x SATA3 (6.0Gb/s)	1 x SATA3 (6.0Gb/s)
Mini-PCle	1 x Full-Sized	N/A
m-SATA	N/A	N/A
M.2	1 x M.2 Key B 2242 (SATA3.0)	1 x M.2 Key M 2280 (SATA/NVMe), 1 x M.2 Key E 2230 (PCIe x1 & USB2.0)
Serial Ports	1 x RS232/RS422/485, 2 x RS232	1 x RS232/RS422/485, 1 x RS232
USB Ports	4 x USB3, 3 x USB2	4 x USB3, 2 x USB2
Keyboard	N/A	N/A
Mouse	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
Audio	HD Audio (Realtek ALC897)	HD Audio (Realtek ALC897)
TPM	Infineon SLB9760 T2.0 TPM 2.0 compliant	Infineon SLB9670 TPM 2.0 compliant
Power	35W (Standard Op. Temp.) Extended Op. Temp. Not Available	40W (Standard Op. Temp.) 40W (Extended Op. Temp.)
Storage Media	128GB – 512GB SSD	128GB – 512GB SSD
Operating System	Windows 10 IoT Enterprise LTSC 64-bit Windows 11 IoT Enterprise LTSC 64-bit	Windows 10 IoT Enterprise LTSC 64-bit Windows 11 IoT Enterprise LTSC 64-bit

Other System Options

Wi-Fi	WLAN communication is available via a USB Dongle. Fully compliant with IEEE's security 802.11b or 802.11g (2.4 GHz) standards with WPA/WEP support.
Bluetooth	Bluetooth communication available via a USB Dongle. Compliant with Bluetooth 4.0 Low Energy specification.

Customisation

Colour	Full customisation of case colour and logos available
OS / Software	Contact us for further details
Output Sockets	These can be customised to suit your requirements

Accessories

Mounting	Wall mount brackets available
KVM Extenders	Contact us for further details

Dimensions

