

X3-BTS

R680E

BTL-S/ 14th/ 13th/ 12th Gen Intel Core
Desktop Box IPC

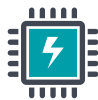


KEY FEATURES



Compact Size

Compact Size & Powerful Performance



Increased CPU Performance

Supports BTL-S/14th/13th/12th Generation Intel® Core™ Processors



Create RAID or NVME

Configurable with dual M.2 NVME Storage with RAID 0/1



One PCIe x16 slot expansion

Supports a single-slot, low-profile add-on card or graphics card (up to 70W TDP).



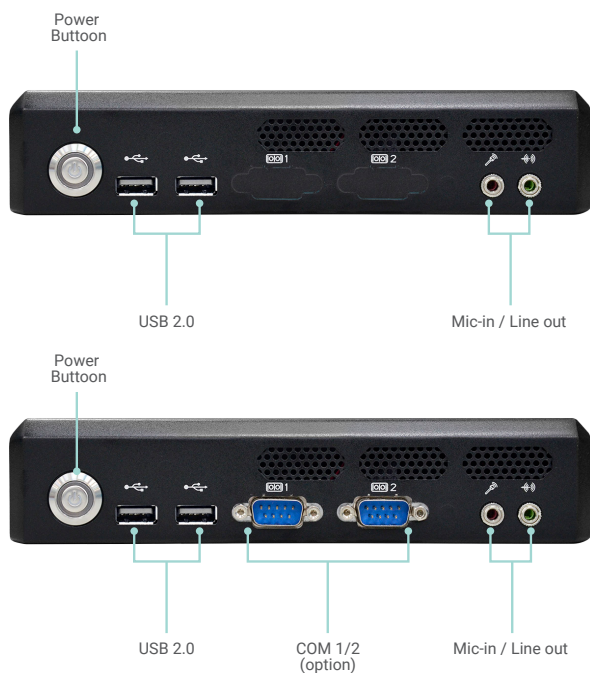
Easy Integration

Supports Wallmount or Rackmount Installation

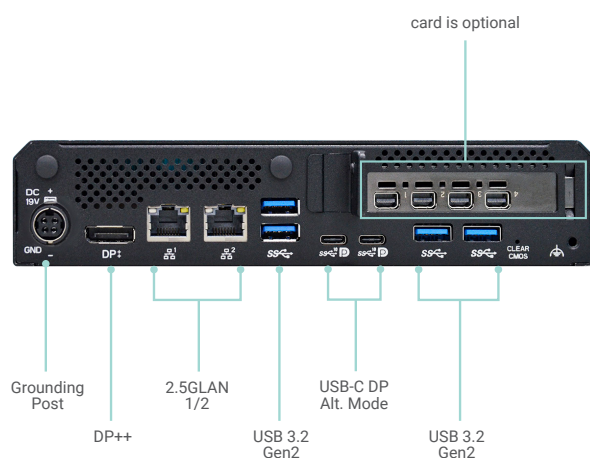


IoT Solutions Alliance

PANEL



Front View

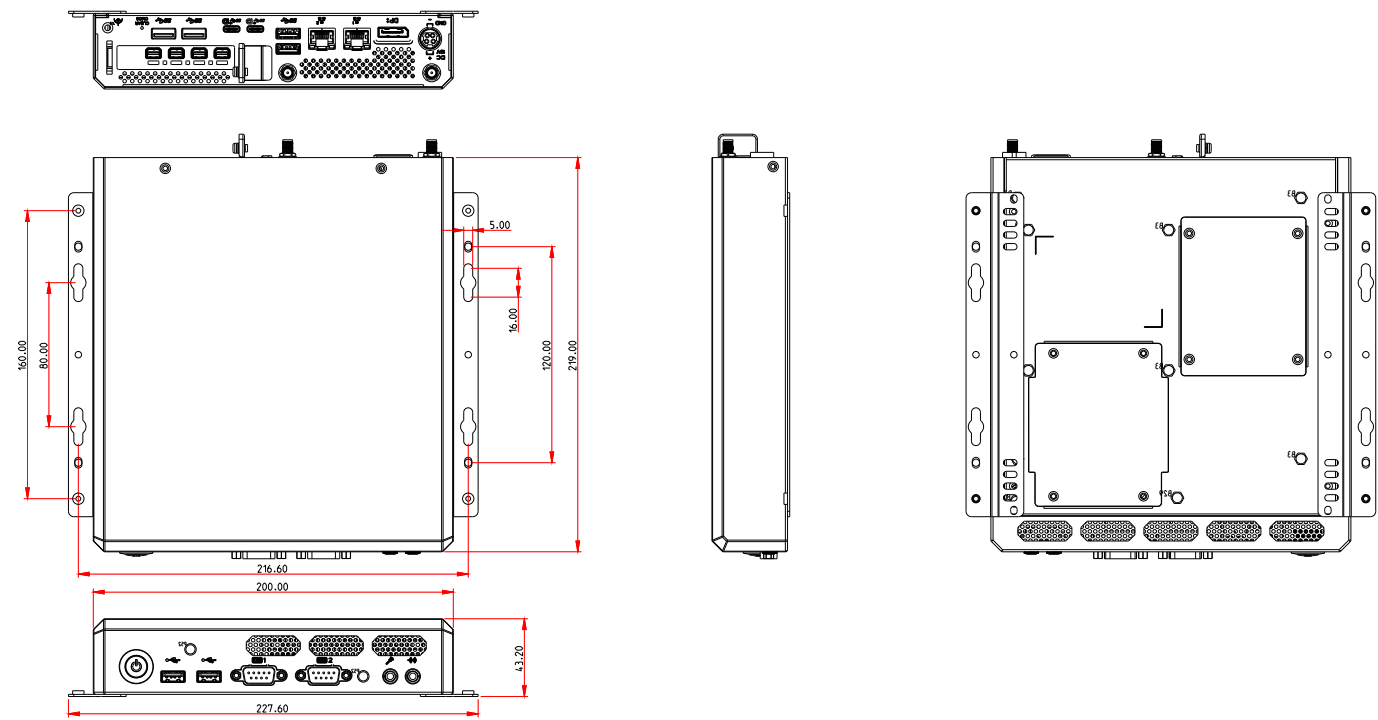


Rear View

DFI

Desire For Innovation

DIMENSIONS



SPECIFICATION

SYSTEM	Processor	Intel® Bartlett Lake-S Hybrid LGA 1700 Socket Processors, TDP support up to 65W Intel® Core™ 7 251E (24 Cores, 36M Cache, up to 5.6 GHz); 65W Intel® Core™ 7 251TE (24 Cores, 36M Cache, up to 5.4 GHz); 45W Intel® Core™ 5 221E (14 Cores, 24M Cache, up to 5.2 GHz); 65W Intel® Core™ 5 221TE (14 Cores, 24M Cache, up to 5.0 GHz); 45W Intel® Core™ 5 211E (10 Cores, 20M Cache, up to 4.9 GHz); 65W Intel® Core™ 5 211TE (10 Cores, 20M Cache, up to 4.8 GHz); 45W Intel® Core™ 3 201E (4 Cores, 12M Cache, up to 4.8 GHz); 60W Intel® Core™ 3 201TE (4 Cores, 12M Cache, up to 4.6 GHz); 45W Intel® 300 (2 Cores, 6M Cache, up to 3.9 GHz); 45W Intel® 300T (2 Cores, 6M Cache, up to 3.4 GHz); 35W 14th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W Intel® Core™ i9-14901E (8 Cores, 36M Cache, up to 5.6 GHz); 65W Intel® Core™ i5-14401E (6 Cores, 24M Cache, up to 4.7 GHz); 65W Intel® Core™ i9-14901E (8 Cores, 36M Cache, up to 5.6 GHz); 65W Intel® Core™ i5-14401E (6 Cores, 24M Cache, up to 4.7 GHz); 65W Intel® Core™ i9-14900 (24 Cores, 36M Cache, up to 5.8 GHz); 65W Intel® Core™ i9-14900T (24 Cores, 36M Cache, up to 5.5 GHz); 35W Intel® Core™ i7-14700 (20 Cores, 33M Cache, up to 5.4 GHz); 65W Intel® Core™ i7-14700T (20 Cores, 33M Cache, up to 5.2 GHz); 35W Intel® Core™ i5-14500 (14 Cores, 24M Cache, up to 5 GHz); 65W Intel® Core™ i5-14500T (14 Cores, 24M Cache, up to 4.8 GHz); 35W Intel® Core™ i5-14400 (10 Cores, 20M Cache, up to 4.7 GHz); 65W Intel® Core™ i5-14400T (10 Cores, 20M Cache, up to 4.5 GHz); 35W Intel® Core™ i3-14100 (4 Cores, 12M Cache, up to 4.7 GHz); 60W Intel® Core™ i3-14100T (4 Cores, 12M Cache, up to 4.4 GHz); 35W Intel® 300 (2 Cores, 6M Cache, up to 3.9 GHz); 46W Intel® 300T (2 Cores, 6M Cache, up to 3.4 GHz); 35W 13th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W Intel® Core™ i9-13900E (24 Cores, 36M Cache, up to 5.2 GHz); 65W Intel® Core™ i9-13900TE (24 Cores, 36M Cache, up to 5.0 GHz); 35W Intel® Core™ i7-13700E (16 Cores, 30M Cache, up to 5.1 GHz); 65W Intel® Core™ i7-13700TE (16 Cores, 30M Cache, up to 4.8 GHz); 35W Intel® Core™ i7-13700T (16 Cores, 30M Cache, up to 4.9 GHz); 35W Intel® Core™ i5-13500E (14 Cores, 24M Cache, up to 4.6 GHz); 65W Intel® Core™ i5-13500TE (14 Cores, 24M Cache, up to 4.5 GHz); 35W Intel® Core™ i5-13500T (14 Cores, 24M Cache, up to 4.6 GHz); 35W Intel® Core™ i5-13400E (10 Cores, 20M Cache, up to 4.6 GHz); 65W Intel® Core™ i3-13100E (4 Cores, 12M Cache, up to 4.4 GHz); 65W Intel® Core™ i3-13100TE (4 Cores, 12M Cache, up to 4.1 GHz); 35W Intel® Core™ i3-13100T (4 Cores, 12M Cache, up to 4.2 GHz); 35W 12th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W Intel® Core™ i9-12900E (16 Cores, 30M Cache, up to 5.0 GHz); 65W Intel® Core™ i9-12900TE (16 Cores, 30M Cache, up to 4.8 GHz); 35W Intel® Core™ i7-12700E (12 Cores, 25M Cache, up to 4.8 GHz); 65W Intel® Core™ i7-12700TE (12 Cores, 25M Cache, up to 4.6 GHz); 35W Intel® Core™ i5-12500E (6 Cores, 18M Cache, up to 4.5 GHz); 65W Intel® Core™ i5-12500TE (6 Cores, 18M Cache, up to 4.3 GHz); 35W Intel® Core™ i3-12100E (4 Cores, 12M Cache, up to 4.2 GHz); 60W Intel® Core™ i3-12100TE (4 Cores, 12M Cache, up to 4.0 GHz); 35W Intel® Pentium® G7400E (2 Cores, 6M Cache, 3.6 GHz); 46W Intel® Pentium® G7400TE (2 Cores, 6M Cache, 3.0 GHz); 35W Intel® Celeron® G6900E (2 Cores, 4M Cache, 3.0 GHz); 46W Intel® Celeron® G6900TE (2 Cores, 4M Cache, 2.4 GHz); 35W
	Chipset	Intel® R680E Chipset
	Memory	Two 262-pin SODIMM up to 96GB (ECC/Non-ECC) Dual Channel DDR5 5600 MHz
	BIOS	AMI SPI 256Mbit
	Controller	Intel® UHD Graphics 700 series
GRAPHICS	Feature	OpenGL 4.5, DirectX 12, OpenCL 2.1 HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9 HW Encode: AVC/H264, JPEG, HEVC/H265, VP9
	Display	1 x DP++ 2 x USB-C DP Alt.Mode
STORAGE	Internal	1 x M.2 2280 M Key (PCIe Gen4 x4/SATA) 1 x M.2 2280 M Key (PCIe Gen3 x4/SATA) 1 x M.2 2280 M Key (PCIe Gen4 x4) RAID 0/1
EXPANSION	Interface	1 x M.2 2230 E Key (USB2.0 / PCIe Gen3 x1) 1 x M.2 2280 M Key (PCIe Gen4 x4/SATA, share with storage) 1 x M.2 2280 M Key (PCIe Gen3 x4/SATA, share with storage) 1 x M.2 2280 M Key (PCIe Gen4 x4, share with storage) 1 x M.2 2242/3042/3052 B Key (PCIe Gen3 x1/USB 3.2 Gen1/USB 2.0) 1 x PCIe x16 slot (PCIe Gen4 x8)
AUDIO	Audio Codec	Realtek ALC888S-VD2-GR

SPECIFICATION

ETHERNET	Controller	2 x Intel® I226IT PCIe (10/100/1000/2.5G speeds)
LED	Indicators	1 x Power LED 1 x HDD LED
FRONT I/O	USB	2 x USB 2.0
	Serial	Default is None, Optional 2 x COM(RS232/422/485 selectable, default is RS232)
	Audio	1 x Line out, 1 x Mic-in
	Button	1 x Power Button
REAR I/O	Ethernet	2 x 2.5GbE (RJ45, LAN1/ LAN2)
	USB	4 x USB 3.2 Gen2 2 x USB-C DP Alt. Mode
	Display	1 x DP++ 2 x USB-C DP Alt.Mode
	Others	1 x remote switch 1 x reset button
	Grounding	1 x Grounding Post
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds
SECURITY	TPM	dTPM2.0
POWER	Type	DC 19V
	RTC Battery	CR2032 Coin Cell
	Connector	4pin mini DIN
	Consumption	TBD
OS SUPPORT	Microsoft	Windows 11 IoT
	Linux	Linux
ENVIRONMENT	Temperature	Operating: -20°C ~ 50°C (for wide temperature M.2 SSD, w/ 0.6m/sec air flow) Storage: -40°C ~ 85°C
	Humidity	Operating: 5% ~ 90% RH Storage: 5% ~ 90% RH
	MTBF	TBD
MECHANICAL	Construction	Metal chassis
	Mounting	Wall mount
	Dimensions (W x H x D)	200 x 43.2 x 219mm
	Weight	TBD
STANDARDS AND CERTIFICATIONS	Shock	Operating: 3G Non-operating: 5G
	Vibration	Operating: Random 5~500Hz 1G Non-operating: Sweep Sine 10~500Hz 1.5G
	Certifications	CE, FCC class A, RoHS, UKCA