

Embedded BOX PC

A robust lineup featuring high durability ideal for embedded use and a wide range of specifications to suit different applications

Category	Ultra-compact PC			
Series	Tiny Edge PC3	Tiny Edge PC3 (Wireless LAN)	Tiny Edge PC3 (Extended temperature)	Tiny Edge PC3 (LTE)
				
Model	BXC-TNY3xVP / SP	BXC-TNY3xWP / TP	BXC-TNY3xEP	BXC-TNY3xCP
Supported OS	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit
CPU	intel N97 intel x7433RE	intel N97 intel x7433RE	intel x7433RE	intel x7433RE
CPU generation	Alder Lake-N	Alder Lake-N	Amston Lake	Amston Lake
Production plan	Until 2031-12-31	Until 2031-12-31	Until 2031-12-31	Until 2031-12-31
Chipset	—(integrated in CPU)	—(integrated in CPU)	—(integrated in CPU)	—(integrated in CPU)
Memory	LPDDR5-4000 8GB	LPDDR5-4000 8GB	LPDDR5-4000 8GB	LPDDR5-4000 8GB
Storage	M.2 SATA	M.2 SATA	M.2 SATA / CFast (option)	M.2 SATA
Interfaces	USB 10Gbps (USB 3.2 Gen 2) Type-A x1 USB 5Gbps (USB 3.2 Gen 1) Type-A x1 LAN (10/100/1000 Mbps) RJ-45 x1 LAN (10/100/1000/2500 Mbps) RJ-45 x1 HDMI x1	USB 10Gbps (USB 3.2 Gen 2) Type-A x1 USB 5Gbps (USB 3.2 Gen 1) Type-A x1 LAN (10/100/1000 Mbps) RJ-45 x1 LAN (10/100/1000/2500 Mbps) RJ-45 x1 HDMI x1 Wireless LAN supported	USB 10Gbps (USB 3.2 Gen 2) Type-A x1 USB 5Gbps (USB 3.2 Gen 1) Type-A x1 USB 2.0 Type-A x1 LAN (10/100/1000 Mbps) RJ-45 x1 LAN (10/100/1000/2500 Mbps) RJ-45 x1 HDMI x1 RS-232 (3-wire) x1	USB 10Gbps (USB 3.2 Gen 2) Type-A x1 USB 5Gbps (USB 3.2 Gen 1) Type-A x1 LAN (10/100/1000 Mbps) RJ-45 x1 LAN (10/100/1000/2500 Mbps) RJ-45 x1 HDMI x1 RS-232 (3-wire) x1, GPIO isolated type (I/O 4-bit) LTE 4G supported
Expansion slot	—	—	—	—
System fan	—	—	—	—
VESA mount	75x75 mm (mount kit required, sold separately)	75x75 mm (mount kit required, sold separately)	75x75 mm (mount kit required, sold separately)	75x75 mm (mount kit required, sold separately)
DIN rail mounting	Supported (mount kit required, sold separately)	Supported (mount kit required, sold separately)	Supported (mount kit required, sold separately)	Supported (mount kit required, sold separately)
Power	Input: AC 100V to 240V (AC cable not included) AC cable: 3-pin / Unit: DC jack Cable length: approx. 2 m (AC cable), approx. 1.5 m (DC cable) *For the 60W AC adapter	Input: AC 100V to 240V (AC cable not included) AC cable: 3-pin / Unit: DC jack Cable length: approx. 2 m (AC cable), approx. 1.5 m (DC cable) *For the 60W AC adapter	Input: AC 100V to 240V (AC cable not included) AC cable: 3-pin / Unit: Terminal block (2-pin) Cable length: approx. 2 m (AC cable), approx. 1.5 m (DC cable) *For the 60W AC adapter	Input: AC 100V to 240V (AC cable not included) AC cable: 3-pin / Unit: Terminal block (2-pin) Cable length: approx. 2 m (AC cable), approx. 1.5 m (DC cable) *For the 60W AC adapter
Power consumption	28.5W (max.)	28.5W (max.)	28.5W (max.)	28.5W (max.)
Environmental resistance	Vibration resistance: 3G (operating) / 5G (non-operating) Shock resistance: 150G (non-operating)	Vibration resistance: 3G (operating) / 5G (non-operating) Shock resistance: 150G (non-operating)	Vibration resistance: 3G (operating) / 5G (non-operating) Shock resistance: 150G (non-operating)	Vibration resistance: 3G (operating) / 5G (non-operating) Shock resistance: 150G (non-operating)
Operating conditions	Temperature: -10°C to 50°C (requires 0.7 m/s airflow) Humidity: 20% to 90% (no condensation)	Temperature: -10°C to 50°C (requires 0.7 m/s airflow) Humidity: 20% to 90% (no condensation)	Temperature: -20°C to 60°C (excluding AC adapter) Humidity: 20% to 90% (no condensation)	Temperature: -20°C to 60°C (excluding AC adapter) Humidity: 20% to 90% (no condensation)
Storage conditions	Temperature: -20°C to 75°C Humidity: 20% to 90% (no condensation)	Temperature: -20°C to 75°C Humidity: 20% to 90% (no condensation)	Temperature: -20°C to 75°C Humidity: 20% to 90% (no condensation)	Temperature: -20°C to 75°C Humidity: 20% to 90% (no condensation)
Dimensions	W103 x D83 x H36 mm (excluding protrusions)	W103 x D83 x H36 mm (excluding protrusions)	W103 x D83 x H36 mm (excluding protrusions)	W103 x D83 x H36 mm (excluding protrusions)
Weight	approx. 450 g	approx. 450 g	approx. 450 g	approx. 450 g
Standards / compliance	VCCI Class A, Electrical Appliance and Material Safety Act / PSE (AC adapter, AC cable), RoHS 2 (10 substances)	VCCI Class A, Electrical Appliance and Material Safety Act / PSE (AC adapter, AC cable), RoHS 2 (10 substances), TELEC (Japan radio certification)	VCCI Class A, Electrical Appliance and Material Safety Act / PSE (AC adapter, AC cable), RoHS 2 (10 substances)	VCCI Class A, Electrical Appliance and Material Safety Act / PSE (AC adapter, AC cable), RoHS 2 (10 substances), TELEC (Japan radio certification)
Included accessories	AC adapter, AC cable, Rubber feet	AC adapter, AC cable, Rubber feet	AC adapter (DC plug cable included), AC cable, Rubber feet	AC adapter (DC plug cable included), AC cable, Rubber feet
Warranty period	Free: 1 year from purchase (return-to-depot repair) Paid: 3 years from final shipment date	Free: 1 year from purchase (return-to-depot repair) Paid: 3 years from final shipment date	Free: 1 year from purchase (return-to-depot repair) Paid: 3 years from final shipment date	Free: 1 year from purchase (return-to-depot repair) Paid: 3 years from final shipment date

HAGIWARA Solutions

Industrial PC Catalog



Auto-recovery PC

Remote Control PC



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Category	EdgePC				Category	Option				
Series	Capture Vision	Capture Vision (GPU-equipped model)	Nexus EdgePC (tentative)	Multi 4 EdgePC (tentative)	Accelerate EdgePC	Accelerate EdgePC (CFast slot-equipped model)	Remote EdgePC	Series	For BXC-TNY3xxP series	
			 Unit expansion image						 VESA extension mount kit OPT-TNY3-VESA-EXT1 OPEN	
Model	BXA-CN	BXA-CV/CW	BSLNB	BXC-4DL	BXC-TGxA	BXC-TGxA-x	BXC-RLE01	Model		
Supported OS	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Windows 11 IoT Ent 2024 LTSC 64bit Windows 10 IoT Ent 2021 LTSC 64bit	Supported OS	 Desktop LTE antenna (1 piece) OPT-TNY3-OLTE OPEN
CPU	intel CORE i7 intel CORE i5 intel CORE i3 intel Celeron	intel CORE i7 intel CORE i5 intel CORE i3 intel Celeron	intel N97 intel N305 intel N355 *Intel N355 does not support Windows® 10	intel CORE i5 intel CORE i3	intel CORE i5 intel CORE i3	intel CORE i5 intel CORE i3 intel Celeron	intel CORE i5 intel CORE i3 intel Celeron	intel Atom	CPU	
CPU generation	Raptor Lake-S Refresh Alder Lake-S	Raptor Lake-S Refresh Alder Lake-S	Alder Lake-N Twin Lake	Raptor Lake-U	Tiger Lake-UP3	Tiger Lake-UP3	Tiger Lake-UP3	Elkhart Lake	CPU generation	 DIN rail mount kit OPT-HSOL-DIN OPEN
Production plan	Until 2031-12-31	Until 2031-12-31	Until 2031-12-31	Until 2031-12-31	Until 2030-12-31	Until 2030-12-31	Until 2030-12-31	Until 2030-12-31	Production plan	
Chipset	Q670E	Q670E	—(integrated in CPU)	—(integrated in CPU)	—(integrated in CPU)	—(integrated in CPU)	—(integrated in CPU)	—(integrated in CPU)	Chipset	
Memory	U-DIMM slots x4 DDR5-4400 (max 128GB)	U-DIMM slots x4 DDR5-4400 (max 128GB)	SO-DIMM slots x1 DDR5-4800 (max 16GB)	SO-DIMM slots x1 DDR5-4800 (max 32GB)	SO-DIMM slots x2 DDR4-3200 (max 64GB; dual channel)	SO-DIMM slots x2 DDR4-3200 (max 64GB; dual channel)	SO-DIMM slots x2 DDR4-3200 (max 64GB; dual channel)	SO-DIMM slots x1 DDR4-3200 (max 16GB); In-Band ECC supported	Memory	
Storage	CFast; M.2 NVMe; 2.5" SATA (RAID1)	CFast; M.2 NVMe; 2.5" SATA (RAID1)	M.2 SATA	M.2 NVMe; M.2 SATA	M.2 NVMe; M.2 SATA	M.2 NVMe; M.2 SATA	M.2 NVMe; M.2 SATA	2.5" SATA; M.2 SATA	Storage	 Burn-prevention sheet (set of 5) OPT-TNY3-THP OPEN
Expansion bay	CFast x2 or 2.5" x2 (mutually exclusive); optional	CFast x2 or 2.5" x2 (mutually exclusive); optional	—	—	—	—	—	—	Expansion bay	
Interfaces	USB 10Gbps (USB3.2 Gen2) Type-A x8 (rear)	USB 10Gbps (USB3.2 Gen2) Type-A x8 (rear)	USB 10Gbps (USB3.2 Gen2) Type-A x2	USB 10Gbps (USB3.2 Gen2) Type-A x4	USB 10Gbps (USB3.2 Gen2) Type-A x4	USB 10Gbps (USB3.2 Gen2) Type-A x4	USB 10Gbps (USB3.2 Gen2) Type-A x4	USB 10Gbps (USB3.2 Gen2) Type-A x2 (front)	Interfaces	 COM cable OPT-TNY3-COM OPEN
	USB 2.0 Type-A x2 (front)	USB 2.0 Type-A x2 (front)	USB 5Gbps (USB3.2 Gen1) Type-A x2	LAN (10/100/1000/2500Mbps) RJ-45 x4	USB 2.0 Type-A x2	USB 2.0 Type-A x2	USB 2.0 Type-A x2	USB 2.0 Type-A x2 (rear)		
	LAN (10/100/1000/2500Mbps) RJ-45 x2 (rear)	LAN (10/100/1000/2500Mbps) RJ-45 x2 (rear)	LAN (10/100/1000/2500Mbps) RJ-45 x2	HDMI x4	LAN (10/100/1000/2500Mbps) RJ-45 x2	LAN (10/100/1000/2500Mbps) RJ-45 x2	LAN (10/100/1000/2500Mbps) RJ-45 x2	LAN (10/100/1000Mbps) RJ-45 x1 (front; not available when using remote function)		
	HDMI x2	HDMI x2	HDMI x1	Mic In x1; Line Out x1	HDMI x1	HDMI x1	HDMI x1	HDMI x1		
	DP x2	DP x2	DP x1	RS-232C/422/485 (D-sub 9-pin) x2 (optional)	RS-232C/422/485 (D-sub 9-pin) x2 (optional; mutually exclusive with PCIe)	RS-232C/422/485 (D-sub 9-pin) x2 (optional; mutually exclusive with PCIe)	RS-232C/422/485 (D-sub 9-pin) x2 (optional; mutually exclusive with PCIe)	LAN (10/100/1000/2500Mbps) RJ-45 x2 (front)		
	Mic In x1; Line Out x1 (rear)	Mic In x1; Line Out x1 (rear)	Line Out x1	16 bits (8 x GPI, 8 x GPO)	—	—	—	HDMI x1; RS-232C/422/485 (D-sub 9-pin) x1 (rear)		
Expansion slots	RS-232C/422/485 (D-sub 9-pin) x2 (optional; mutually exclusive with PCIe)	RS-232C/422/485 (D-sub 9-pin) x2 (optional; mutually exclusive with PCIe)	—	—	—	—	—	RS-232C (D-sub 9-pin) x4 (optional; mutually exclusive with PCIe)	Expansion slots	 Chassis heat-dissipation type heat spreader OPEN *Available only at the time of product shipment
	RS-232C (D-sub 9-pin) x4 (optional; mutually exclusive with PCIe)	RS-232C (D-sub 9-pin) x4 (optional; mutually exclusive with PCIe)	—	—	—	—	—	RS-232C (D-sub 9-pin) x1 (rear)		
	Optical drive (optional)	Optical drive (optional)	—	—	—	—	—	—		
	PCle Gen5 x16 (1 slot)	PCle Gen4 x4 (1 slot)	—	—	—	—	—	—		
System fan	PCle Gen4 x4 (2 slots)	PCle Gen3 x4 (1 slot)	—	—	—	—	—	—	System fan	For BXC-TGL1A series
	PCle Gen3 x4 (1 slot)	Power supply fan; CPU fan	—	—	—	—	—	—		
VESA mount	—	—	75 x 75mm; 100 x 100mm (mount kit required; sold separately)	75 x 75mm; 100 x 100mm (mount kit required; sold separately)	75 x 75mm; 100 x 100mm (mount kit required; sold separately)	75 x 75mm; 100 x 100mm (mount kit required; sold separately)	75 x 75mm; 100 x 100mm (mount kit required; sold separately)	75 x 75mm; 100 x 100mm (mount kit required; sold separately)	VESA mount	 VESA mount kit OPT-TGL-VESA OPEN
DIN rail mount	—	—	Supported (mount kit required; sold separately)	Supported (mount kit required; sold separately)	Supported (mount kit required; sold separately)	Supported (mount kit required; sold separately)	Supported (mount kit required; sold separately)	Supported (mount kit required; sold separately)	DIN rail mount	
Power	Input: AC100 to 240V (AC cable not included)	Input: AC100 to 240V (AC cable not included)	Input: AC100 to 240V (AC cable not included)	Input: AC100 to 240V (AC cable not included)	Input: AC100 to 240V (AC cable not included)	Input: AC100 to 240V (AC cable not included)	Input: AC100 to 240V (AC cable not included)	Input: AC100 to 240V (AC cable not included)	Power	 AC adapter set / 60W model OPT-JS006-ACADP OPEN
	AC cable: 3-pin	AC cable: 3-pin	AC cable: 3-pin / unit: DC jack	AC cable: 3-pin / unit: DC jack	AC cable: 3-pin / unit: DC jack	AC cable: 3-pin / unit: DC jack	AC cable: 3-pin / unit: DC jack	AC cable: 3-pin / unit: DC jack		
Power consumption	Cable length: approx. 2m	Cable length: approx. 2m	Cable length: approx. 2m (AC cable), approx. 1.5m (DC cable)	Cable length: approx. 2m (AC cable), approx. 1.5m (DC cable)	Cable length: approx. 2m (AC cable), approx. 1.5m (DC cable)	Cable length: approx. 2m (AC cable), approx. 1.5m (DC cable)	Cable length: approx. 2m (AC cable), approx. 1.5m (DC cable)	Cable length: approx. 2m (AC cable), approx. 1.5m (DC cable)	Power consumption	
	370W (max)	370W (max)	59.9W (max)	54W (max)	53.7W (max)	53.7W (max)	54W (max)	54W (max)		
Environmental resistance	Vibration: 1G (operating) / 2G (non-operating) Shock: 40G (non-operating)	Vibration: 1G (operating) / 2G (non-operating) Shock: 40G (non-operating)	Vibration: 2G (operating) / 2G (non-operating) Shock: 100G (non-operating)	Vibration: 2G (operating) / 2G (non-operating) Shock: 100G (non-operating)	Vibration: 2G (operating) / 2G (non-operating) Shock: 100G (non-operating)	Vibration: 2G (operating) / 2G (non-operating) Shock: 100G (non-operating)	Vibration: 2G (operating) / 2G (non-operating) Shock: 100G (non-operating)	Vibration: 1G (operating) / 2G (non-operating) Shock: 40G (non-operating)	Environmental resistance	
Operating conditions	Temperature: -10°C to 50°C	Temperature: -10°C to 50°C	Temperature: 0°C to 60°C (excluding AC adapter)	Temperature: 0°C to 50°C (excluding AC adapter)	Temperature: 0°C to 50°C (excluding AC adapter)	Temperature: 0°C to 50°C (excluding AC adapter)	Temperature: 0°C to 50°C (excluding AC adapter)	Temperature: 0°C to 60°C	Operating conditions	
	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)		
Storage conditions	Temperature: -10°C to 60°C	Temperature: -10°C to 60°C	Temperature: -20°C to 70°C	Temperature: -10°C to 60°C	Temperature: -10°C to 60°C	Temperature: -10°C to 60°C	Temperature: -10°C to 60°C	Temperature: -20°C to 70°C	Storage conditions	
	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)	Humidity: 20% to 90% (non-condensing)		
Dimensions	W345 x D267 x H155 mm	W345 x D267 x H155 mm	W155 x D110 x H52 mm	W155 x D110 x H64 mm	W150 x D110 x H64 mm	W150 x D110 x H64 mm	W150 x D110 x H64 mm	W155 x D165 x H42 mm	Dimensions	
Weight	Approx. 7.2kg	Approx. 7.2kg	Approx. 0.95kg	Approx. 0.9kg	Approx. 0.9kg	Approx. 0.9kg	Approx. 0.9kg	Approx. 1.2kg	Weight	
Standards / compliance	VCCI Class A; Electrical Appliance and Material Safety Law (PSE); RoHS2 (10 substances)	VCCI Class A; Electrical Appliance and Material Safety Law (PSE); RoHS2 (10 substances)	VCCI Class A; Electrical Appliance and Material Safety Law (PSE) (AC adapter, AC cable); RoHS2 (10 substances)	VCCI Class A; Electrical Appliance and Material Safety Law (PSE) (AC adapter, AC cable); RoHS2 (10 substances)	VCCI Class A; Electrical Appliance and Material Safety Law (PSE) (AC adapter, AC cable); RoHS (10 substances)	VCCI Class A; Electrical Appliance and Material Safety Law (PSE) (AC adapter, AC cable); RoHS2 (10 substances)	VCCI Class A; Electrical Appliance and Material Safety Law (PSE) (AC adapter, AC cable); RoHS2 (10 substances)	VCCI Class A; Electrical Appliance and Material Safety Law (PSE) (AC adapter, AC cable); RoHS2 (10 substances); CE; FCC; chemSHERPA	Standards / compliance	
Included accessories	AC cable; rubber feet	AC cable; rubber feet	AC adapter; AC cable; rubber feet	AC adapter; AC cable; rubber feet	AC adapter; AC cable; rubber feet	AC adapter; AC cable; rubber feet	AC adapter; AC cable; rubber feet	AC adapter; AC cable; rubber feet; stand	Included accessories	
Warranty period	Free: 1 year after purchase (send-back repair)	Free: 1 year after purchase (send-back repair)	Free: 1 year after purchase (send-back repair)	Free: 1 year after purchase (send-back repair)	Free: 1 year after purchase (send-back repair)	Free: 1 year after purchase (send-back repair)	Free: 1 year after purchase (send-back repair)	Free: 1 year after purchase (send-back repair)	Warranty period	
	Paid: 3 years from final shipment date	Paid: 3 years from final shipment date	Paid: 3 years from final shipment date	Paid: 3 years from final shipment date	Paid: 3 years from final shipment date	Paid: 3 years from final shipment date	Paid: 3 years from final shipment date	Paid: 3 years from final shipment date		

The actual installation image is introduced in our technical column.



How to easily mount the palm-sized "Tiny Edge PC3"

<https://www.hagisol.co.jp/techblog/?p=4577>