

Промышленные тонкие клиенты коробочного типа

Технические характеристики

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Industrial Box Thin Client

BTC24-*

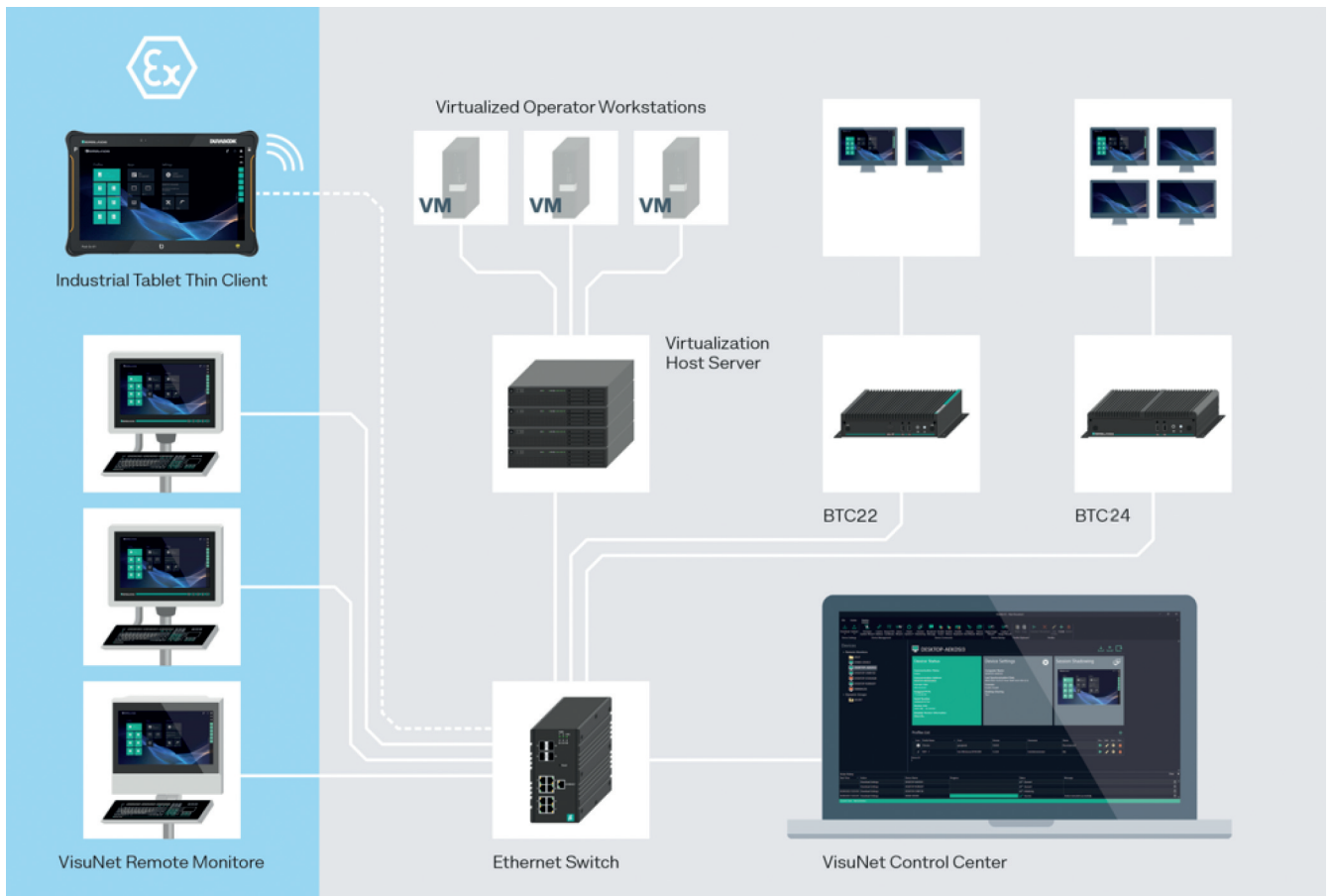


- Industrial-grade box thin client for 24/7 operation
- Long-term support with product availability for more than 5 years
- Supports up to 4 modern Ultra HD (4K) monitors with 60 Hz
- Compact footprint

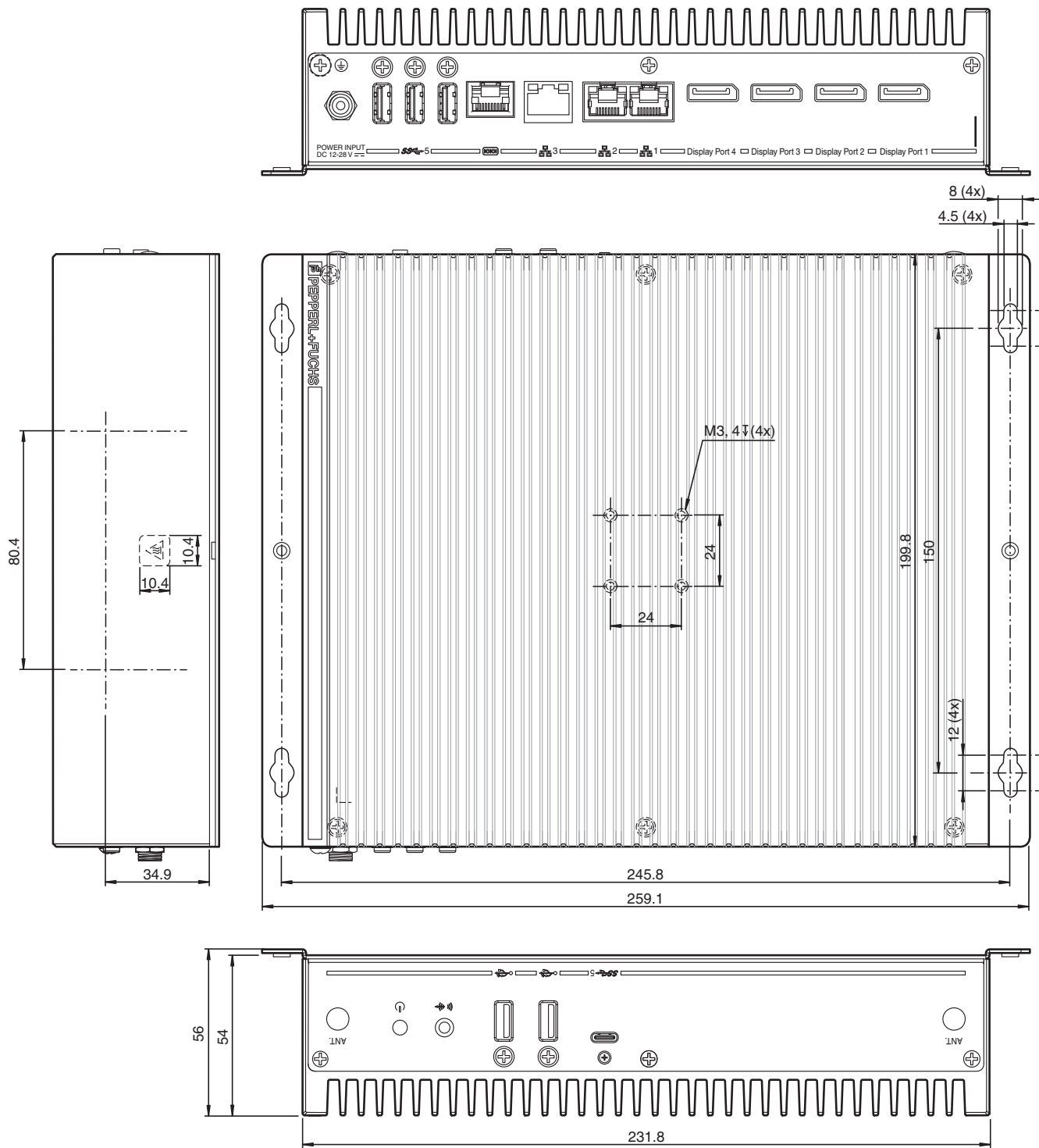
Industrial Box Thin Client



Function Principle



Dimensions



Technical Data

Hardware	
Processor	AMD Ryzen R2314
RAM	8 GB DDR4 (2x 4 GByte dual-channel RAM)
Mass storage	64 GByte M.2 SSD
Supply	
Power supply	Input voltage: 12 ... 28 V DC Input current: 4.6 A ... 1.9 A Input via 2.5 mm power socket
Interface	

Technical Data

Interface type		Front side: 1x USB 3.2 Gen 1 Type C 2x USB 2.0 Type A, Power button, Audio line out Back side: 3x 1000Base-T Ethernet, 4x DisplayPort 1.4, 1x DC (DC jack 5.5 x 2.5 mm with lock mechanism), 3x USB 3.2 Gen 1 Type A, 1x RS-232/RS-485 with RJ45 connector
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2021 EN 55032:2015+A11:2020+A1: 2020 EN 55011:2016+A1:2017+A11:2020+A2:2021 (Group 1, Class B)
RoHS		
Directive 2011/65/EU (RoHS)		EN IEC 63000:2018-12
Software		
Operating system		VisuNet RM Shell 6 (based on Windows® 10 IoT Enterprise LTSC 2021 x64) ("1-" option) Optional: IGEL OS 12 (based on Linux, pre-installed without licence) ("J-" option)
Ambient conditions		
Operating temperature		0 ... 55 °C (32 ... 131 °F)
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		≤ 90 % at 60 °C (non-condensing acc. to EN 60068-2-78)
Shock resistance		40 g (11 ms) when operating 80 g (11 ms) when not operating
Vibration resistance		3 g _{rms} 5 ... 500 Hz
Mechanical specifications		
Degree of protection		IP4x
Mass		2.47 kg
Dimensions		259.1 mm x 56.05 mm x 199.8 mm
Mounting		Desktop or wall mounting, VESA mount (100 x 100 mm and 75 x 75 mm) and DIN-rail mounting via optional adapter
Note		passive cooling , no moving parts Power supply not included.
International approvals		
UL approval		"UL Listed" for Canada and USA, E223772 (Ordinary Location)
Approved for		CE (EN61326-1/ EN55032/ EN55035 Class A) FCC Class A and ICES-003 Issue 7

Type Code

BTC24-*								
BTC24-	(1)	(2)-	(3)	(4)	(5)	(6)-	(7)	(8)
Model								
BTC24-	Box Thin Client							
(1)	Certificate							
N	CE & FCC + UL Ordinary Location							
(2)-	Operating Temperature							
A-	Standard Operating Temperature (0 ... +55 °C)							
(3)	CPU							
1	AMD Ryzen R2314							
(4)	RAM							
N	None							
A	8 GB Standard Temperature							

Type Code

(5)	Storage
N	None
A	64 GB M.2 SSD

(6)-	Operating System
1-	VisuNet RM Shell 6
J-	IGEL OS 12 (based on Linux)

(7)	Expansions
N	None

(8)	Options
N0	None

Example:

BTC24-	N	A-	1	A	A	1-	N	N0
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BTC14N-*



- Industrial-grade box thin client for 24/7 operation
- Long-term support with product availability for more than 5 years
- Supports up to four modern Ultra HD (4K) monitors with 60 Hz (with optional 8GB DDR4 RAM)
- Compact footprint

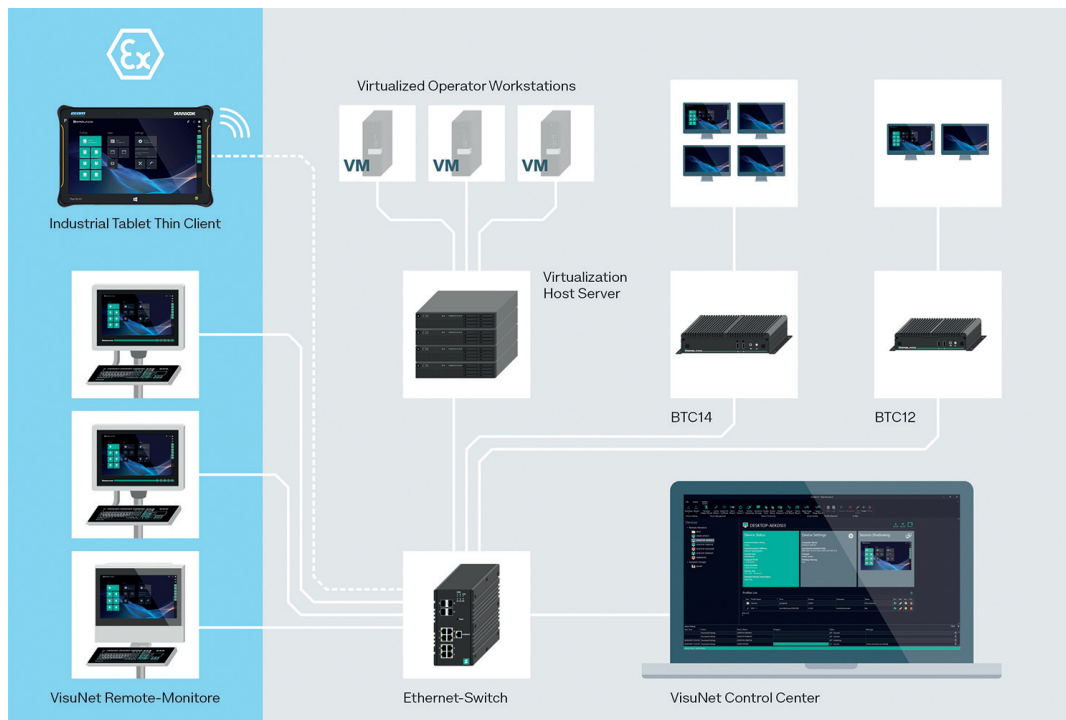
Industrial Box Thin Client



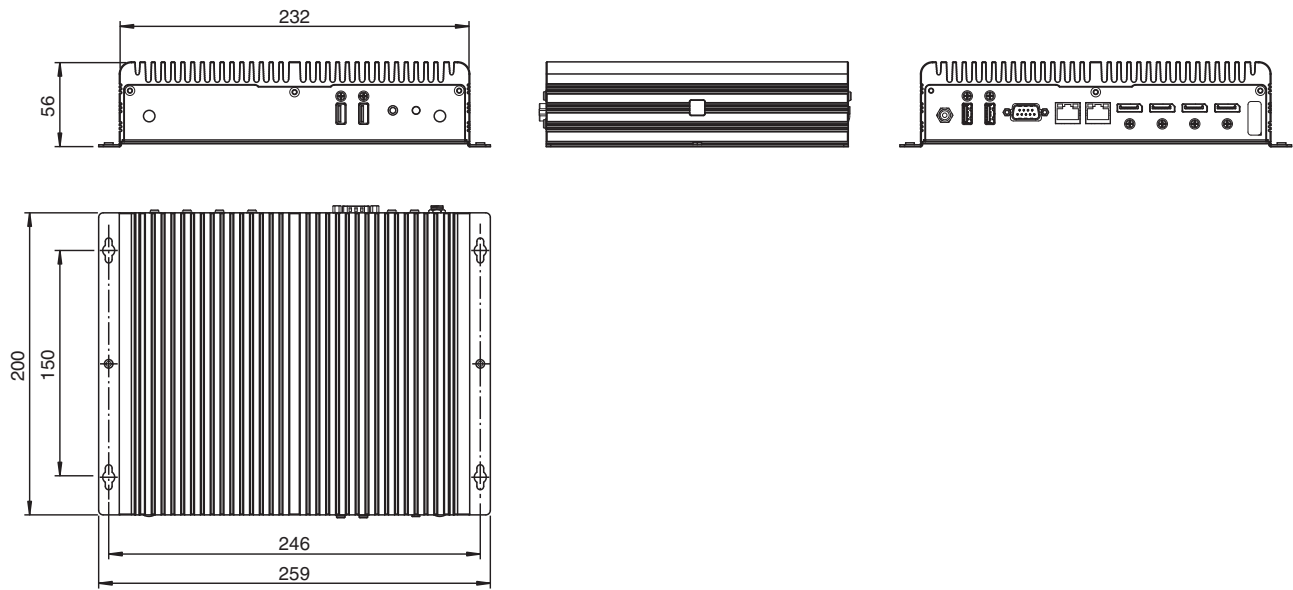
Function

The BTC14 is a compact industrial box thin client for use in harsh industrial environments. Its low profile and optional high operating temperature range (standard temperature grade) offer installation flexibility for automation cabinets, drawers in production, and in control rooms. An AMD processor supports modern operator workstation setups with up to four monitors. Like all other Pepperl+Fuchs remote monitors and box thin clients, the standard BTC14N-GP-TS40-DP-N0 and BTC14N-GP-TS41-DP-N0 are shipped with VisuNet RM Shell 6, the latest generation of thin client firmware for industrial-grade security and stability.

Function Principle



Dimensions



Technical Data

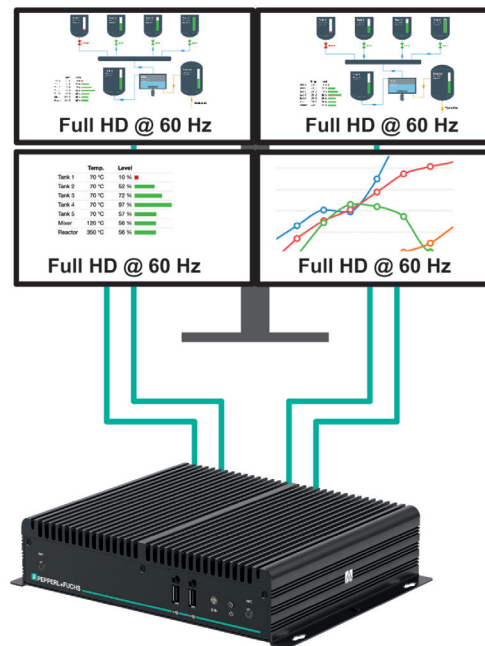
Hardware		
Processor		AMD Ryzen Embedded V1202B
RAM		4 GB DDR4 (standard) 8 GB DDR4 (optional)
Mass storage		32 GB M.2 MSATA MLC
Supply		
Power supply		Input voltage: 12 ... 28 V DC Input current: max. 4.46 A ... 1.48 A Input via 2.5 mm power socket (with double insulation from the power supply)
Interface		
Interface type		Front side: 2 x USB 2.0, power button, audio line out, 2 antenna connections (no preinstalled wireless interfaces) Back side: 2 x 1000Base-T Ethernet, 4 x DisplayPort™ 1.2 (Support for 2 x Ultra HD with 4K at 60 Hz), 1 x DC (DC jack 5.5 x 2.5 mm with lock mechanism), 2 x USB 3.0 (Super Speed), 1 x RS-232/RS-485 with DB-9 connector
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 EN 55032:2015, AC:2016 EN 55035:2017
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09
Software		
Operating system		VisuNet RM Shell 6 (based on Windows® 10 Enterprise LTSC 2021) Optional: TTR: ThinManager Ready
Ambient conditions		
Operating temperature		Temperature classes: N1: Industrial temperature grade 0°... 55° C (32 ... 131 °F) N0: Standard temperature grade -20 ... 60 °C (-4 ... 140 °F)
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		≤ 90 % at 40 °C (non-condensing acc. to EN 60068-2-78)
Shock resistance		40 g (11 ms) when operating
Vibration resistance		3 g _{rms} 5 ... 500 Hz

Technical Data

Mechanical specifications		
Degree of protection		IP4x
Mass		2.47 kg
Dimensions		260 mm x 200 mm x 56 mm
Mounting		Desktop or wall mounting, VESA mount (100 x 100 mm and 75 x 75 mm) and DIN-rail mounting via optional adapter
Note		passive cooling , no moving parts Power supply not included.
International approvals		
UL approval		"UL Listed" for Canada and USA, E223772 (NRAQ, NRAQ7) (Ordinary Location)
Approved for		CE, 2014/30/EU (EMC), 2011/65/EU (RoHS)

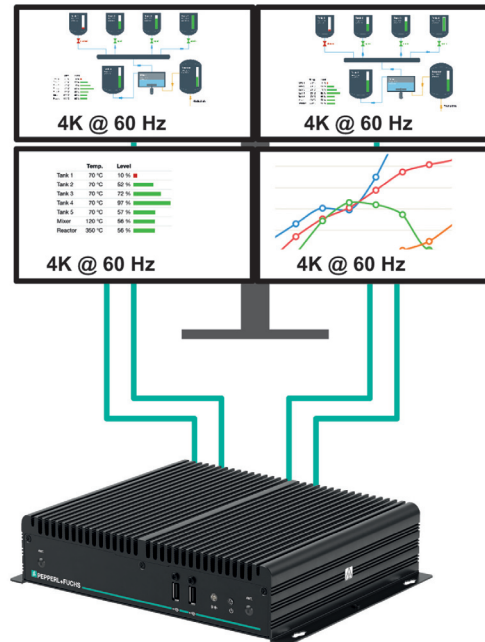
Application

The standard versions of the BTC14 is BTC14N-GP-TS40-DP-N0 which is equipped with 4-GB RAM. Up to four Full HD capable monitors can be connected to the native DisplayPorts™.



Four monitors with Full HD resolution at 60 Hz at 4-GB RAM

The BTC14 can optionally be equipped with 8-GB RAM (BTC14N-GP-TS41-DP-N0). This optional version is designed for the usage of up to four 4-K monitors at 60 Hz.



Four monitors with Ultra HD resolution (4k at 60 Hz) at 8-GB RAM

In case of video applications it is important to note that only one video can be played on one monitor. The other monitors can then run only non-video applications.

Product Versions

Part number	Part name	Description
70164220	BTC14N-GP-TS40-DP-N0	BTC14 with standard enclosure - General-purpose Non-Ex - CE, FCC Part 15 Class B, UL Ord Loc Listed for US & Canada - AMD Ryzen V1202B, 4-GB RAM, 32-GB flash memory, VisuNet RM Shell 6.x based on Windows® 10 IoT 2021 LTSC - 4x DisplayPort, 4x USB, 1x RS-232, 2x Gigabit Ethernet - Standard temperature grade -20 ... 60 °C
70110484-100014	BTC14N-GN-TS41-DP-N0	BTC14 with standard enclosure - General-purpose Non-Ex - CE, FCC Part 15 Class B, UL Ord Loc Listed for US & Canada - AMD Ryzen V1202B, 8-GB RAM, 32-GB flash memory, VisuNet RM Shell 6.x based on Windows® 10 IoT 2021 LTSC - 4x DisplayPort, 4x USB, 1x RS-232, 2x Gigabit Ethernet - Standard temperature grade -20 ... 60 °C
70110484-100013	BTC14N-GN-TTR0-DP-N1	BTC14 with standard enclosure - General-purpose Non-Ex - CE, FCC Part 15 Class B, UL Ord Loc Listed for US & Canada - AMD Ryzen V1202B, 4-GB RAM, ACP ThinManager Ready BIOS installed - 4x DisplayPort, 4x USB, 1x RS-232, 2x Gigabit Ethernet - Industrial temperature grade 0 ... 55 °C

Industrial Box PC

BPC3200-N*



- 7th generation Intel Celeron and i5 embedded processor generation
- Supports high performance M.2 NVMe storage
- Robust, fanless industrial design with -20 ... +55 °C
- Installation flexibility: stand-alone PC, Panel PC, system with enclosure
- Integrated intrinsically safe USB ports for keyboard connections

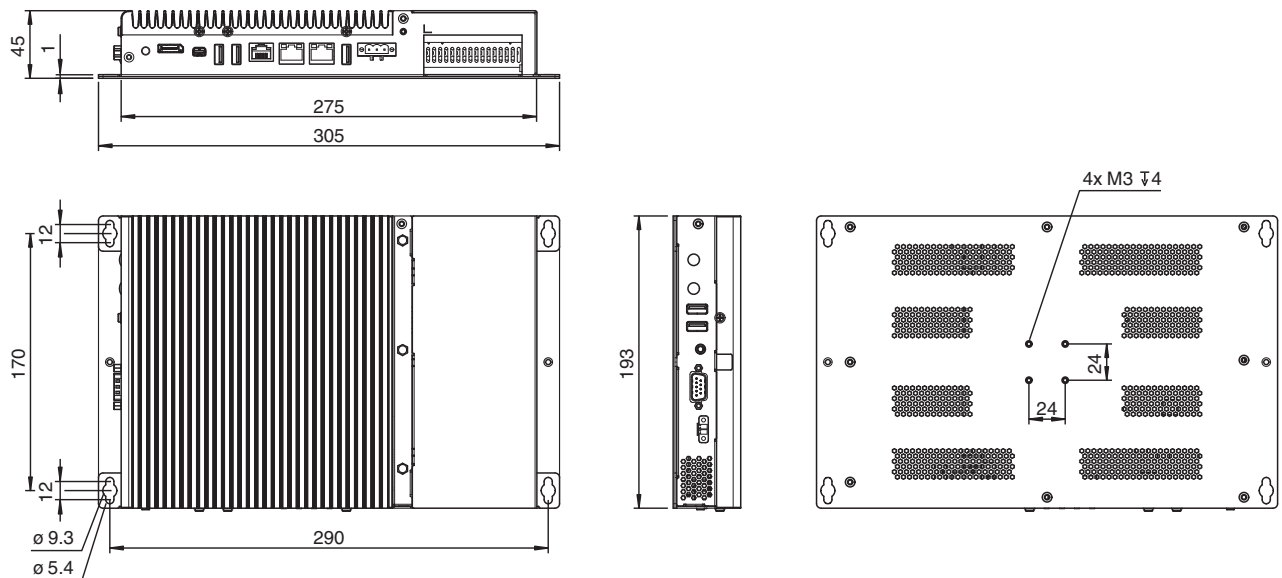
Industrial Box PC



Function

The Box PC 3200 series is based on the 7th Generation Intel® Celeron and i5 (Kaby Lake) embedded processor generation offering a great performance to cost ratio. It supports latest high-speed storage technology (M.2 NVMe 1.3) and extended RAM configurations with up to 16 GB DDR4. The device offers a great application flexibility and can be used as a stand-alone device, as a Panel PC (when mounted on a Pepperl+Fuchs display unit) or as an HMI System (Panel PC installed in a Pepperl+Fuchs enclosure).

Dimensions



Technical Data

General specifications

Type Industrial Box PC

Hardware

Processor Intel® Core™ i5-7300U
Intel® Celeron™ 3965U

Technical Data

RAM	2x SO-DIMM slots, supports up to 32 GB DDR4-2133 (one SO-DIMM slot) Configurable RAM options: Industrial temperature grade (temperature option A): A: 1x 4GB DDR4-2133 [Celeron] B: 1x 8GB DDR4-2133 C: 1x 16GB DDR4-2133 Wide temperature grade (temperature option B): K: 1x 4GB DDR4-2133 [Celeron] L: 1x 8GB DDR4-2133 M: 1x 16GB DDR4-2133
Mass storage	Storage interface: 1x M.2 2242/2280 M Key, PCIe + SATA 3 1x M.2 2242/2280 M Key, 2242/2280, SATA 3, supports Raid 0/1 [i5] Configurable storage options: Industrial temperature grade (temperature option A): A: 32 GB M.2 SATA 3 [Celeron] D: 256 GB M.2 NVMe 1.3 (PCIe 4x) E: 512 GB M.2 NVMe 1.3 (PCIe 4x) Wide temperature grade (temperature option B): K: 32 GB M.2 SATA 3 [Celeron] P: 256 GB M.2 NVMe 1.3 (PCIe 4x) Q: 512 GB M.2 NVMe 1.3 (PCIe 4x)
Supply	
Input current	max. 3 A, max. 60 W
Power consumption	
DC	24 V d. c. (20 ... 28 V d. c.) (SELV/PELV or NEC class 2)
Interface	
Interface type	Backside: 1x Power button w/ LED indicator 1x DisplayPort 1.2 port (supports DP++) 1x mini DisplayPort 1.2 port (supports DP++) 2x USB Ex i ports prepared for Pepperl+Fuchs intrinsically safe keyboard 1x RS232/422/485 port (1x RJ45) 2x RJ45 ports for Gigabyte Ethernet (Intel I219 / I210) 1x USB 2.0 port 1x Power input w/ 3 pin terminal block Left side: 2x Antenna holes 2x USB 3.1 Gen1 (5 Gbps) ports 1x 3,5mm audio jack (Line-out) 1x RS232/422/485 port (D-SUB 9) 1x Connector for external power button Internal expansion options: 1x PCIe 4x slot for low profile cards 1x full-size mini PCI Express socket / M.2 2230 E Key socket
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (ind. Locations) EN 61000-6-4:2007+A1:2011 EN 55035:2017/A11:2020 EN 55011:2016+A1:2017
Explosion protection	
Directive 2014/34/EU	EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018 EN 60079-11:2012
RoHS	
Directive 2011/65/EU (RoHS)	EN IEC 63000:2018
Software	
Operating system	Windows® 10 IoT Enterprise LTSC 2021 x64 VisuNet RM Shell 6 (based on Windows® 10 IoT Enterprise LTSC 2021 x64) [Celeron, 4 GB RAM, 64 GB SSD] Optional: INN-: IGEL OS 11 based on Linux, without licence [Celeron, 8 GB RAM, 64 GB SSD] JNN-: IGEL OS 12 based on Linux, without licence, [Celeron, 8 GB RAM, 64 GB SSD] TNN-: ThinManager Ready [Celeron, 4 GB RAM, no storage]
Ambient conditions	

Technical Data

Operating temperature	Temperature classes: A: 0 ... 45 °C (32 ... 113 °F) B: -20 ... 55 °C (-4 ... 131 °F) [with wide temperature grade RAM/storage]
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	max. relative humidity 93% at 40°C (non-condensing) according to EN60068-2-78
Shock resistance	Acceleration: 15 g Duration: 11 ms Shocks: 18 (3 per axis per direction)
Vibration resistance	Amplitude / acceleration: +/- 0.075 mm // 1 g Frequency range: 10Hz - 150 Hz Sweeps: 20
Mechanical specifications	
Degree of protection	IP 20
Material	Painted sheet metal and extruded aluminum
Mass	approx. 2.5 kg
Dimensions	305 mm x 193 mm x 45 mm
Mounting	Wall mounting, DIN rail (via optional adapter)
International approvals	
UL approval	
Approved for	UL OrdLoc UL approval E223772 UL61010-1 Ed.3 UL 61010-2-201 Ed2 CAN/CSA C22.2 No 61010-1-12 CAN/CSA C22.2 No 61010-2-201 IS circuits for CL I, DIV 2, GP A-D CL II, DIV 2, GP E, F, G CL III IS circuits for CL I, ZN 2, IIC CL II, ZN 22, IIIB CL III, ZN 22, IIIA Install per drawing 116-0478 Mounting in CL I, DIV 2, GP A-D, T4 CL II, DIV 2, GP E, F, G CL III Mounting in CL I, ZN 2, IIC, T4 CL II, ZN 22, IIIB CL III, ZN 22, IIIA
ATEX approval	
ATEX certificate	UL 22 ATEX 2478X
ATEX marking	II 3 G Ex ec [ic Gc] IIC T4 Gc
IECEEx approval	
IECEEx certificate	IECEEx ULD 22.0016X
IECEEx marking	Ex ec [ic Gc] IIC T4 Gc
IECEEx standard	IEC 60079-0:2017 Ed 7.0 IEC 60079-7:2017 Ed 5.1 IEC 60079-11:2011 Ed 6.0
CCC approval	
CCC certificate	2023322309005714
CCC marking	Ex ec [ic Gc] IIC T4 Gc
CCC standard	GB 3836.1-2021 GB/T 3836.3-2021 GB/T 3836.4-2021

Type Code

BPC3200-*

BPC3200-	(1)	(2)-NNNN-	(3)-	(4)	(5)	(6)	(7)NN-	(8)
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Model	
BPC3200-	Stand-alone Box PC

(1)	Explosion protection
N	Industrial, general purpose (Non-Ex)
M	ATEX & IECEx Zone 2 and Class I, Div. 2

(2)-NNNN-	Temperature
A-NNNN-	0 °C ... 45 °C
B-NNNN-	-20 °C ... 55 °C

(3)-	Power supply unit
D-	24 V DC

(4)	Computing platform
1N	Intel® Celeron
2N	Intel® Core i5-7300U

(5)	RAM
A	1x 4 GB, industrial temperature grade [only Temperature "A", Intel Celeron 3965U]
B	1x 8 GB, industrial temperature grade [only Temperature "A"]
C	1x 16 GB, industrial temperature grade [only Temperature "A"]
K	1x 4 GB, wide temperature grade
L	1x 8 GB, wide temperature grade
M	1x 16 GB, wide temperature grade

(6)	Storage
N	None [only ThinManager Ready]
B	64 GB M.2 SATA, industrial temperature grade [only Temperature "A", Intel Celeron 3965U]
D	256 GB M.2 NVMe, industrial temperature grade [only Temperature "A"]
E	512 GB M.2 NVMe, industrial temperature grade [only Temperature "A"]
L	64 GB M.2 SATA, wide temperature grade
P	256 GB M.2 NVMe, wide temperature grade
Q	512 GB M.2 NVMe, wide temperature grade

(7)NN-	Operating System
3NN-	Windows® 10 IoT Enterprise LTSC 2021 x64
4NN-	VisuNet RM Shell 6 (based on Windows® 10 IoT Enterprise LTSC 2021 x64)
INN-	IGEL OS 11 (based on Linux, without licence) [only with 8 GB RAM, 64 GB SSD]
JNN-	IGEL OS 12 (based on Linux, without licence) [only with 8 GB RAM, 64 GB SSD]
TNN-	ThinManager Ready

(8)	Options
NN0	Standard

Example:

BPC3200-	N	A-NNNN-	D-	1N	A	B	4NN-	NN0
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Preferred configurations:

Type	Type code	Description
High-performance configuration	BPC3200-NB-NNNN-D-2NLP3NN-NN0	Intel i5-7300U 8 GB DDR4, wide temperature grade 256 GB M.2 NVMe, wide temperature grade Windows® 10 IoT Enterprise LTSC 2021 x64
Thin Client configuration	BPC3200-NA-NNNN-D-1NAB4NN-NN0	Intel Celeron 3965U 4 GB DDR4, industrial temperature grade 64 GB M.2 SATA 3, industrial temperature grade VisuNet RM Shell 6 (based on Windows® 10 IoT Enterprise LTSC 2021 x64)

Industrial Box Thin Client

BTC12N-*



- Industrial-grade box thin client for 24/7 operation
- Long-term support with product availability for more than 5 years
- Supports modern Ultra HD (4K) setups with 60 Hz
- Compact footprint
- Option for Class I/Div 2 hazardous locations
- Option for ACP ThinManager "Ready"

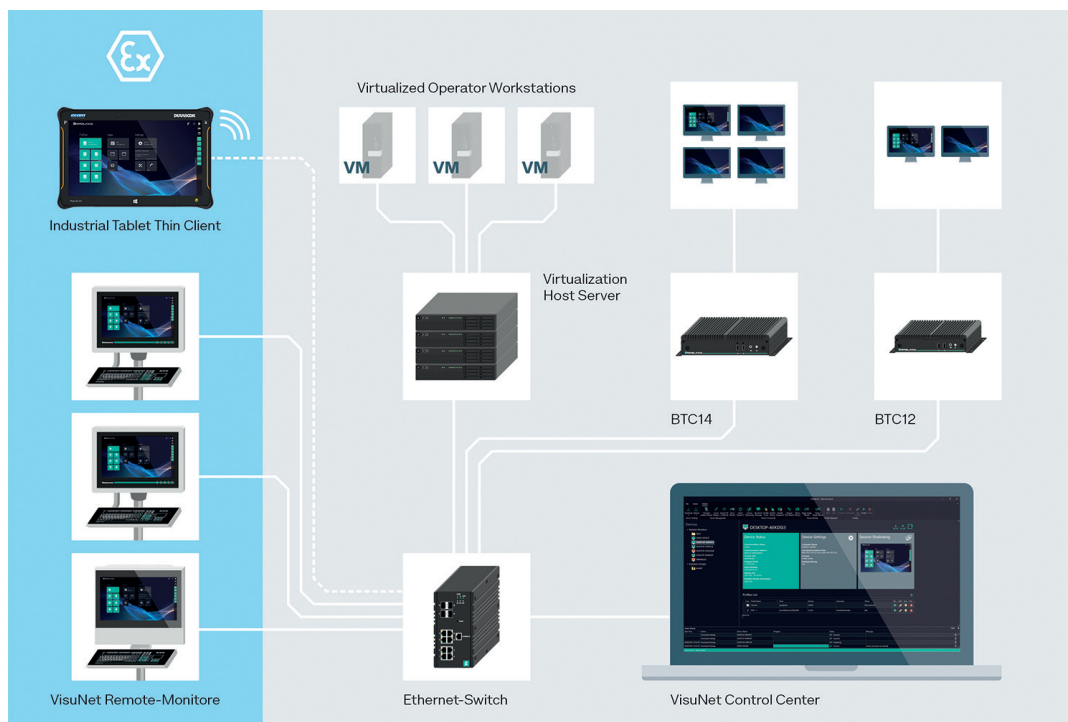
Industrial Box Thin Client



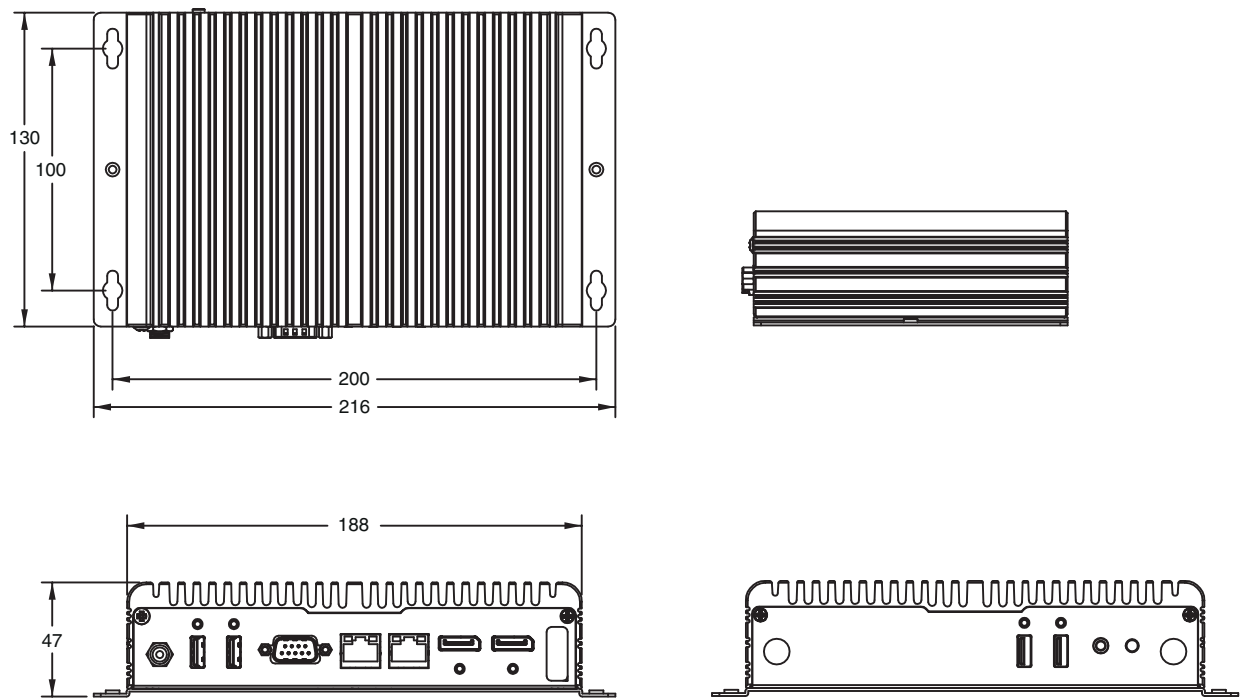
Function

The BTC12 is a compact industrial box thin client for use in harsh industrial environments. Its low profile and optional high operating temperature range (standard temperature grade) offer installation flexibility for automation cabinets, drawers in production, and in control rooms. An Apollo Lake processor supports modern operator workstation setups with up to two monitors. The DisplayPort interfaces support even sophisticated Ultra HD (4K) screens with 60 Hz. Like all other Pepperl+Fuchs remote monitors and box thin clients, the standard BTC12N-GP-TS4-DP-N0 is shipped with VisuNet RM Shell 6, the latest generation of thin client firmware for industrial-grade security and stability.

Function Principle



Dimensions



Technical Data

Hardware		
Processor		Intel® Apollo Lake N4200 series
RAM		4 GB DDR3L Optional: PC3: 8 GB DDR3L PC4: 8 GB DDR3L
Mass storage		32 GB eMMC MLC Optional: PC2: additional 128 GB SSD PC3: additional 240 GB SSD PC4: additional 480 GB SSD
Supply		
Power supply		Input voltage: 16 ... 28 V DC Input current: max. 2 A - 1 A Input via 2.5 mm power socket (with double insulation from the power supply)
Interface		
Interface type		front: 2 x USB 2.0, power button, audio line out Back side: 2 x 1000Base-T Ethernet, 2 x DisplayPort™ 1.2 (supports Ultra HD with 4K at 60 Hz), 1 x DC (DC jack 5.5 x 2.5 mm with lock mechanism), 2 x USB 3.1 (Super Speed) , 1 x RS-232/RS-485 with DB-9 connector
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 EN 55032:2015, AC:2016 EN 55035:2017
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09

Technical Data

Software		
Operating system		VisuNet RM Shell 6.x (based on Microsoft Windows 10 IoT Enterprise 2021 LTSC) Option TTR: ACP ThinManager Ready BIOS Option PC2: Windows 10 IoT LTSC Option: PC3 and PC4: Windows 10 IoT 2019 LTSC
Ambient conditions		
Operating temperature		Temperature classes: N1: Industrial temperature grade 0°... 55° C (32 ... 131 °F) N0: Standard temperature grade -20 ... 60 °C (-4 ... 140 °F)
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		≤ 95 % at 40 °C (non-condensing acc. to EN 60068-2-78)
Shock resistance		40 g (11 ms) when operating
Vibration resistance		3 g _{rms} 5 ... 500 Hz
Mechanical specifications		
Degree of protection		IP40
Mass		1.32 kg
Dimensions		216 mm x 130 mm x 47 mm
Mounting		Desktop or wall mounting, VESA mount (100 x 100 mm and 75 x 75 mm) and DIN-rail mounting via optional adapter
Note		passive cooling , no moving parts Power supply not included.
International approvals		
UL approval		Standard (GP): UL Listed for Canada and USA, E223772 (NRAQ, NRAQ7) (Ordinary Locations) Option D2: UL Listed for Canada and USA, E492874 (NRAG, NRAG7) (Hazardous Locations)

Accessories

	FSP065-RBBN3	Power supply for BTC12 and BTC14 Industrial thin clients
	BTC12-CBL-DC-JACK-2100	Connecting cable for BTC12 and BTC14
	ATEN-LockPro	Latch that allows to lock cables to BTC1*
	VISUNET CONTROL CENTER 6	Additional Management tool for VisuNet Remote Monitors and Box Thin Clients
	VISUNET-RM-SHELL6	Thin Client Firmware for VisuNet Remote Monitors, Box Thin Clients and Tablet Thin Clients (mobile)
	VISUNET-RM-SHELL6-CC	VisuNet Control Center License Key for RM Shell 6
	VISUNET-RM-SHELL6-DRDC	DRDC License Key for RM Shell 6
	VISUNET-RM-SHELL6-PRO	PRO License Key for RM Shell 6

Type Code

Type	Enclosure	Certification	Computing Platform	Interfaces	Options
BTC12	Box Thin Client				
	-N	Standard enclosure			
		-GP	General-purpose Non-Ex - CE, FCC Part 15 Class B, UL Ord Loc Listed for US & Canada		
		-GN	General-purpose Non-Ex - CE, FCC Part 15 Class B		
		-D2	Ex/Hazloc version - CE, FCC Part 15 Class B, UL Haz Loc Listed for US & Canada Class I, Div 2		
		-TS3	Intel Pentium N4200, 4-GB RAM, 32 GB Flash, VisuNet RM Shell 5.x based on Windows® 10 IoT LTSC		
		-TS4	Intel Pentium N4200, 4-GB RAM, 32 GB Flash, VisuNet RM Shell 6.x based on Windows® 10 IoT LTSC		
		-PC2	Intel Pentium N4200, 4-GB RAM, 128 GB SSD, Windows® 10 IoT LTSC installed		
		-PC3	Intel Pentium N4200, 8-GB RAM, 240 GB SSD, Windows® 10 IoT LTSC installed		
		-PC4	Intel Pentium N4200, 8-GB RAM, 480 GB SSD, Windows® 10 IoT LTSC installed		
		-TTR	Intel Pentium N4200, 4-GB RAM, ACP ThinManager Ready BIOS installed		
			-DP	2x DisplayPort, 4x USB, 1x RS-232, 2x Gigabit Ethernet	
				-N0	Standard temperature grade -20 ... 60 °C
				-N1	Industrial temperature grade 0 ... 55 °C

Industrial Box Thin Client

BTC22-*

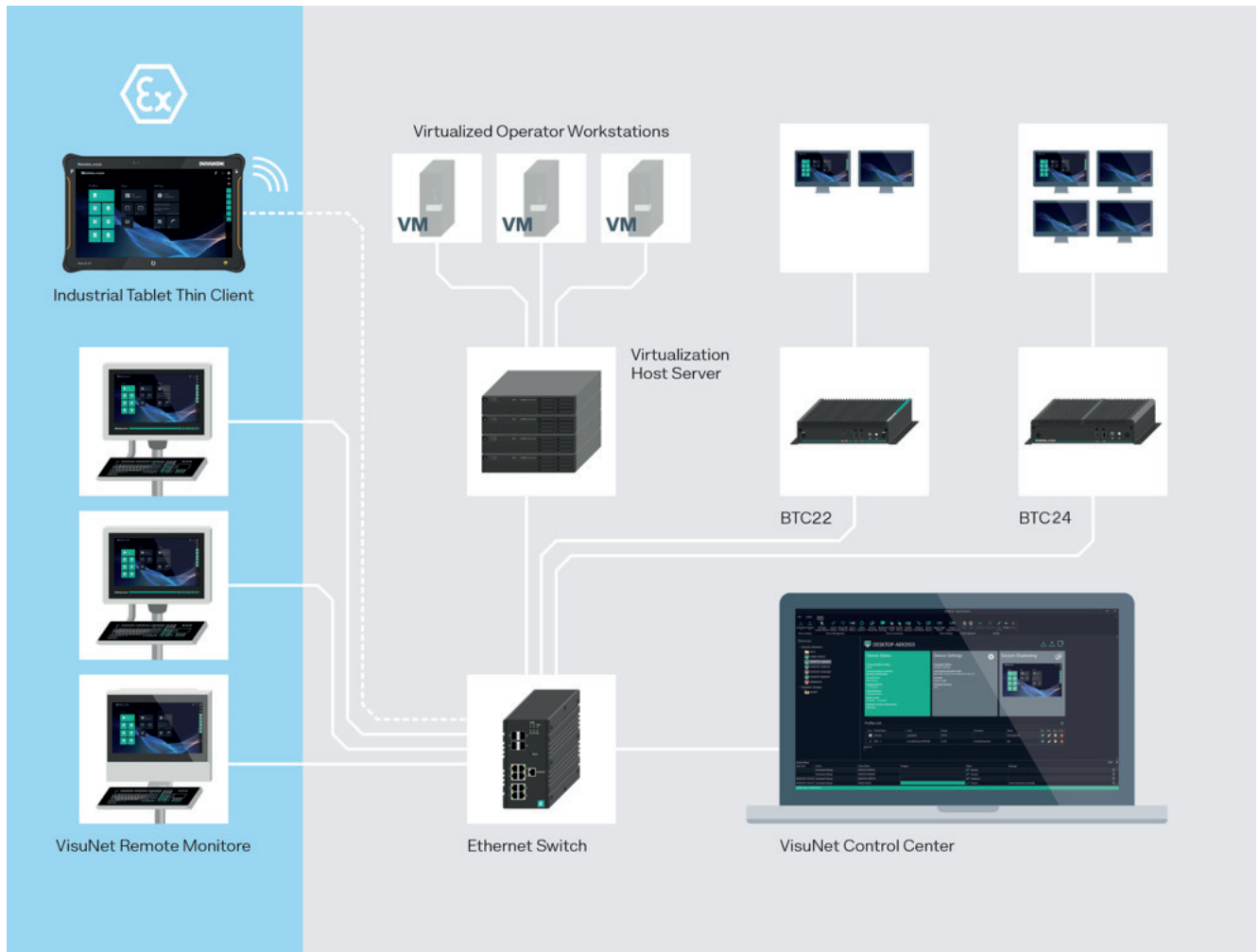


- Industrial-grade box thin client for 24/7 operation
- Long-term support with product availability for more than 5 years
- Supports up to two modern Ultra HD (4K) monitors with 60 Hz
- Compact footprint

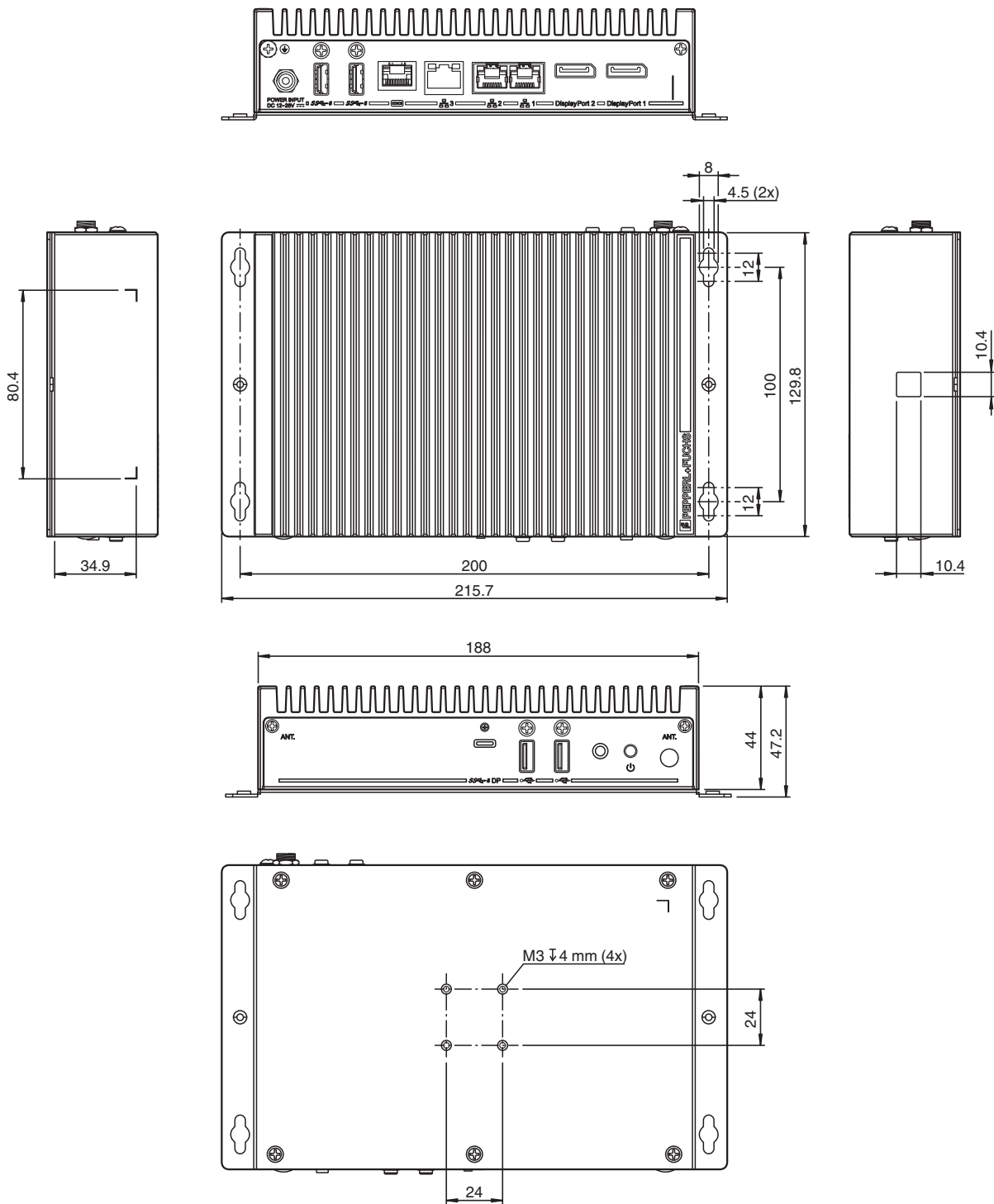
Industrial Box Thin Client



Function Principle



Dimensions



Technical Data

Hardware

Processor	Intel Atom x6413E
RAM	8 GB DDR4
Mass storage	64 GByte eMMC TLC

Supply

Power supply	Input voltage: 12 ... 28 V DC Input current: 1 A - 2 A Input via 2.5 mm power socket
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Interface

Technical Data

Interface type		Front side: 1x USB 3.2 Gen 1 w/ DP alt mode, Type C 2x USB 2.0 Type A, power button, audio line out Back side: 3x 1000Base-T Ethernet, 2x DisplayPort 1.4, 1x DC (DC jack 5.5 x 2.5 mm with lock mechanism), 2x USB 3.2 Gen 1 Type A, 1x RS-232/RS-485 with RJ45 connector
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 EN 55032:2015, AC:2016 EN 55035:2017
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09
Software		
Operating system		VisuNet RM Shell 6 (based on Windows® 10 Enterprise LTSC 2021) Optional: J-: IGEL OS 12 (based on Linux, pre-installed without licence)
Ambient conditions		
Operating temperature		0 ... 55 °C (32 ... 131 °F)
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		≤ 95 % at 60 °C (non-condensing acc. to EN 60068-2-78)
Shock resistance		40 g (11 ms) when operating 80 g (11 ms) when not operating
Vibration resistance		3 g _{rms} 5 ... 500 Hz
Mechanical specifications		
Degree of protection		IP40
Mass		1.32 kg
Dimensions		216 mm x 130 mm x 47 mm
Mounting		Desktop or wall mounting, VESA mount (100 x 100 mm and 75 x 75 mm) and DIN-rail mounting via optional adapter
Note		passive cooling , no moving parts Power supply not included.
International approvals		
UL approval		"UL Listed" for Canada and USA, E223772 (Ordinary Location)
Approved for		CE (EN61326-1/ EN55032/ EN55035 Class A) FCC Class B and ICES-003 Issue 7

Type Code

BTC22-*							
BTC22-	(1)	(2)-	(3)	(4)	(5)	(6)-	(7)
Model							
BTC22-	Box Thin Client						
(1)	Certification						
N	CE & FCC + UL Ordinary Location						
(2)-	Operating Temperature						
A-	Standard Operating Temperature Range 0 ... 55 °C						
B-	Extended Operating Temperature Range -20 ... 60 °C						
(3)	CPU						
1	Intel® Atom x6413E						
(4)	RAM						
B	8 GB for Standard Temperature Range						
L	8 GB for Extended Temperature Range						

Type Code

(5)	Storage
N	None
A	64-GB eMMC

(6)-	Operating System
N-	None
1-	VisuNet RM Shell 6
J-	IGEL OS 12 (based on Linux)

(7)	Expansions
NN0	None

Example:

BTC22-	N	A-	1	B	A	1-	NN0
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