

Industrial Box Thin Client

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

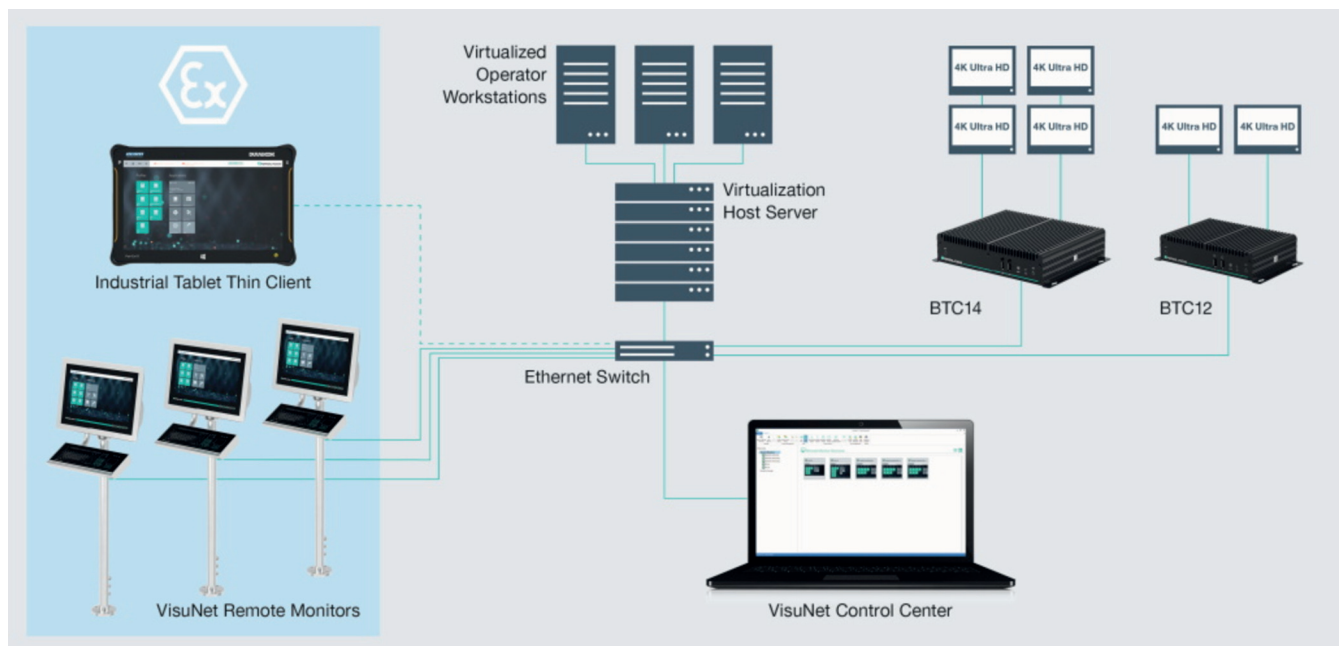
Industrial Box Thin Client



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-TS30-DP-N0 and BTC14N-GN-TS31-DP-N0 are shipped with VisuNet RM Shell 5, the latest generation of thin client firmware for industrial-grade security and stability.

Function Principle



Release date: 2022-07-07 Date of issue: 2022-07-07 Filename: t191554_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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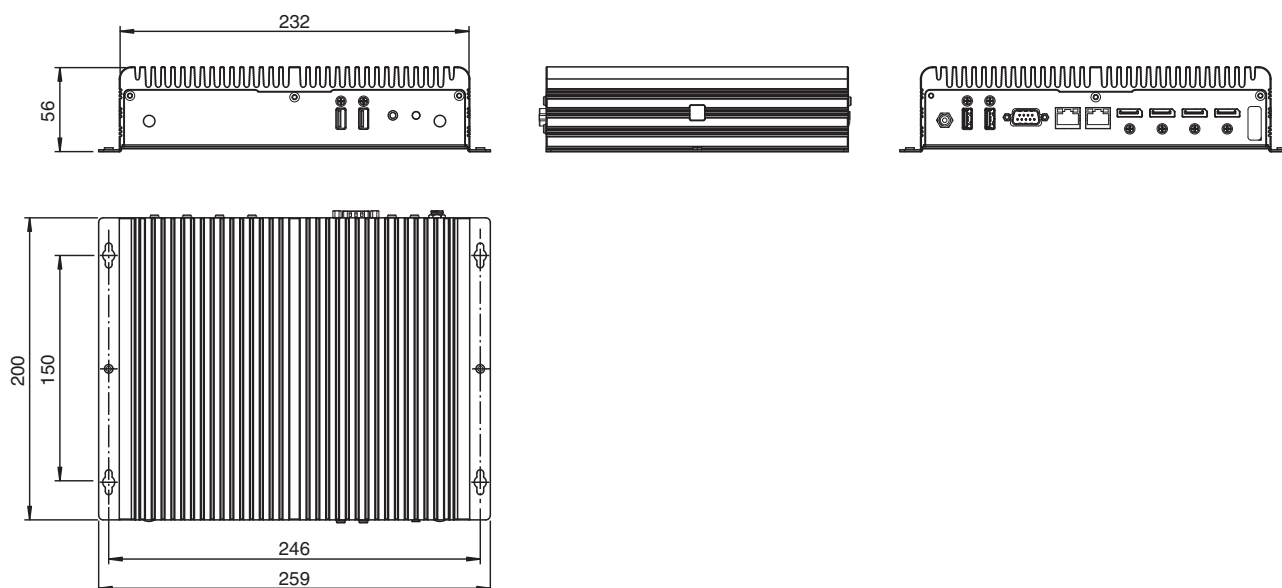
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Dimensions



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: 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 5.x (based on Microsoft® Windows® 10 IoT Enterprise 2019 LTSC) Option TTR: ACP ThinManager Ready BIOS
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

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Technical Data

Mechanical specifications

Degree of protection		IP4x
Mass		1.6 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

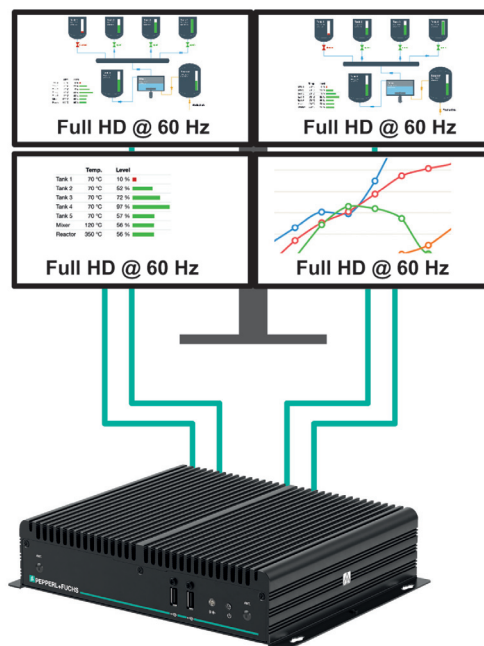
UL approval		"UL Listed" for Canada and USA, E223772 (NRAQ, NRAQ7) (Ordinary Location)
Approved for		CE, 2014/30/EU (EMC), 2011/65/EU (RoHS)

Accessories

	VISUNET-RM-SHELL5 (2019 LTSC)	Thin Client Firmware for VisuNet Remote Monitors, Box Thin Clients and Tablet Thin Clients (mobile)
	VISUNET-CONTROL-CENTER	Additional Management tool for VisuNet Remote Monitors and Box Thin Clients
	VISUNET-RM-SHELL5 (2016 LTSC)	Thin Client Firmware for VisuNet Remote Monitors and Box Thin Clients
	VISUNET-RM-SHELL5-CC	VisuNet Control Center License Key for RM Shell 5
	VISUNET-RM-SHELL5-DRDC	DRDC License Key for RM Shell 5
	VISUNET-RM-SHELL5-PRO	PRO License Key for RM Shell 5
	FSP065-RBBN3	Power supply for BTC12 and BTC14 Industrial thin clients
	BTC12-CBL-DC-JACK-2100	Connecting cable for BTC12 and BTC14

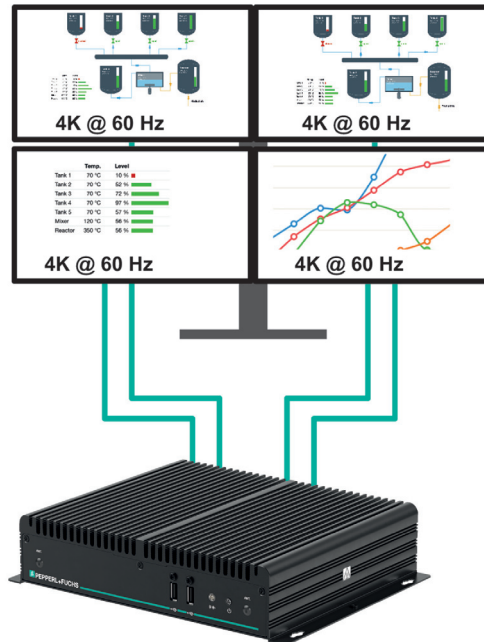
Application

The standard versions of the BTC14 are BTC14N-GP-TS30-DP-N1 and BTC14N-GP-TS30-DP-N0 which are 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-TS31-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

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Part number	Part name	Description
70144399	BTC14N-GP-TS30-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, 8-GB RAM, 32 GB Flash, VisuNet RM Shell 5.x based on Windows® 10 IoT 2019 LTSC - 4x DisplayPort, 4x USB, 1x RS-232, 2x Gigabit Ethernet - Industrial temperature grade 0 ... 55 °C
70133407	BTC14N-GP-TS30-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, VisuNet RM Shell 5.x based on Windows® 10 IoT 2019 LTSC - 4x DisplayPort, 4x USB, 1x RS-232, 2x Gigabit Ethernet
70110484-100003	BTC14N-GN-TS31-DP-N0	BTC14 with standard enclosure - General-purpose Non-Ex - CE, FCC Part 15 Class B - AMD Ryzen V1202B, 8-GB RAM, 32 GB Flash, VisuNet RM Shell 5.x based on Windows® 10 IoT 2019 LTSC - 4x DisplayPort, 4x USB, 1x RS-232, 2x Gigabit Ethernet
70110484-100006	BTC14N-GN-TS31-DP-N1	BTC14 with standard enclosure - General-purpose Non-Ex - CE, FCC Part 15 Class B - AMD Ryzen V1202B, 8-GB RAM, 32 GB Flash, VisuNet RM Shell 5.x based on Windows® 10 IoT 2019 LTSC - 4x DisplayPort, 4x USB, 1x RS-232, 2x Gigabit Ethernet - Industrial temperature grade 0 ... 55 °C
70110484-100004	BTC14N-GP-TTR0-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, ACP ThinManager Ready BIOS installed - 4x DisplayPort, 4x USB, 1x RS-232, 2x Gigabit Ethernet
70110484-100007	BTC14N-GP-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