

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

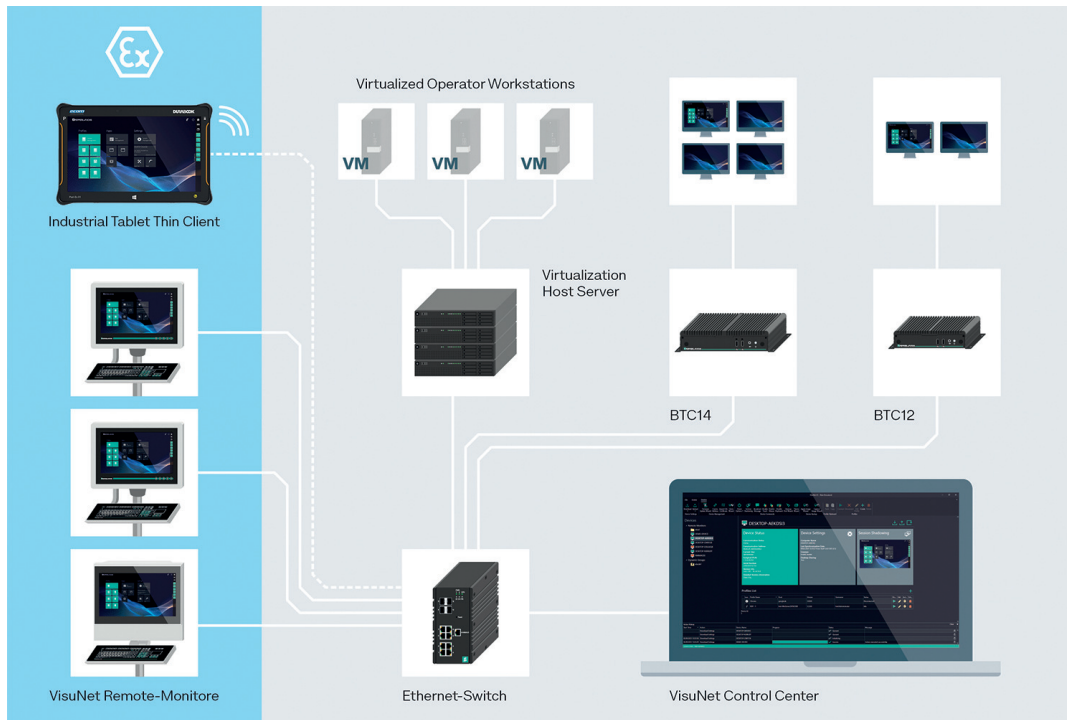
Industrial Box Thin Client



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-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



Release date: 2024-03-28 Date of issue: 2024-03-28 Filename: t191554_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

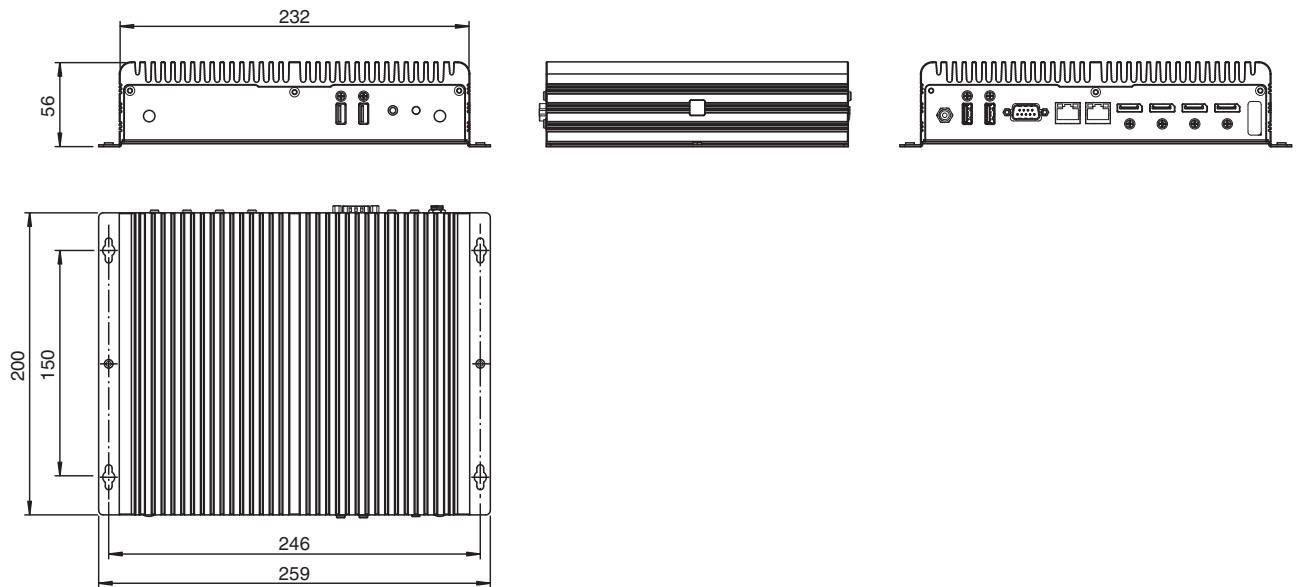
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PEPPERL+FUCHS

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 6.x (based on Microsoft Windows 10 IoT Enterprise 2021 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

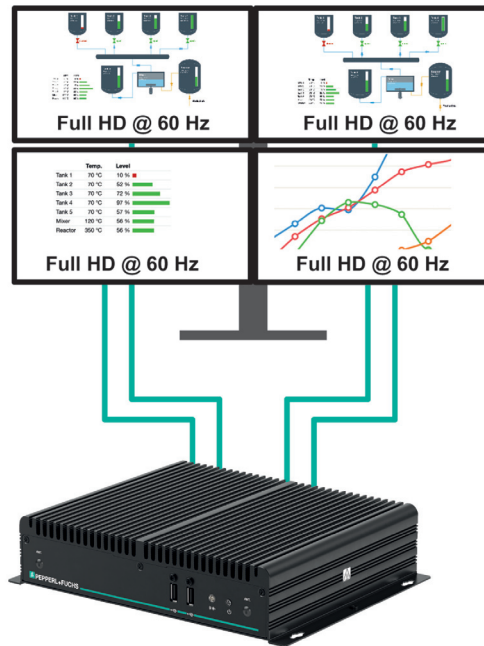
Degree of protection	IP4x
Mass	1.6 kg
Dimensions	260 mm x 200 mm x 56 mm
Mounting	Desktop or wall mounting, VESA mount (100 x 100 mm and 75 x 75 mm) and DIN-rail mounting via optional adapter
Note	passive cooling , no moving parts Power supply not included.

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)

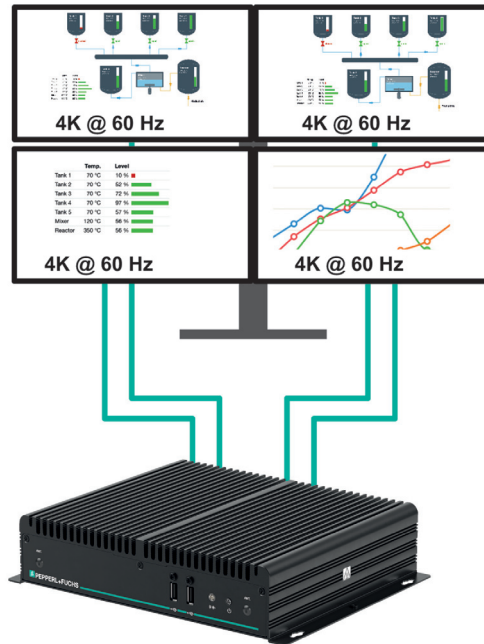
Application

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

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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