

Industrial Box Thin Client

BTC12N-*



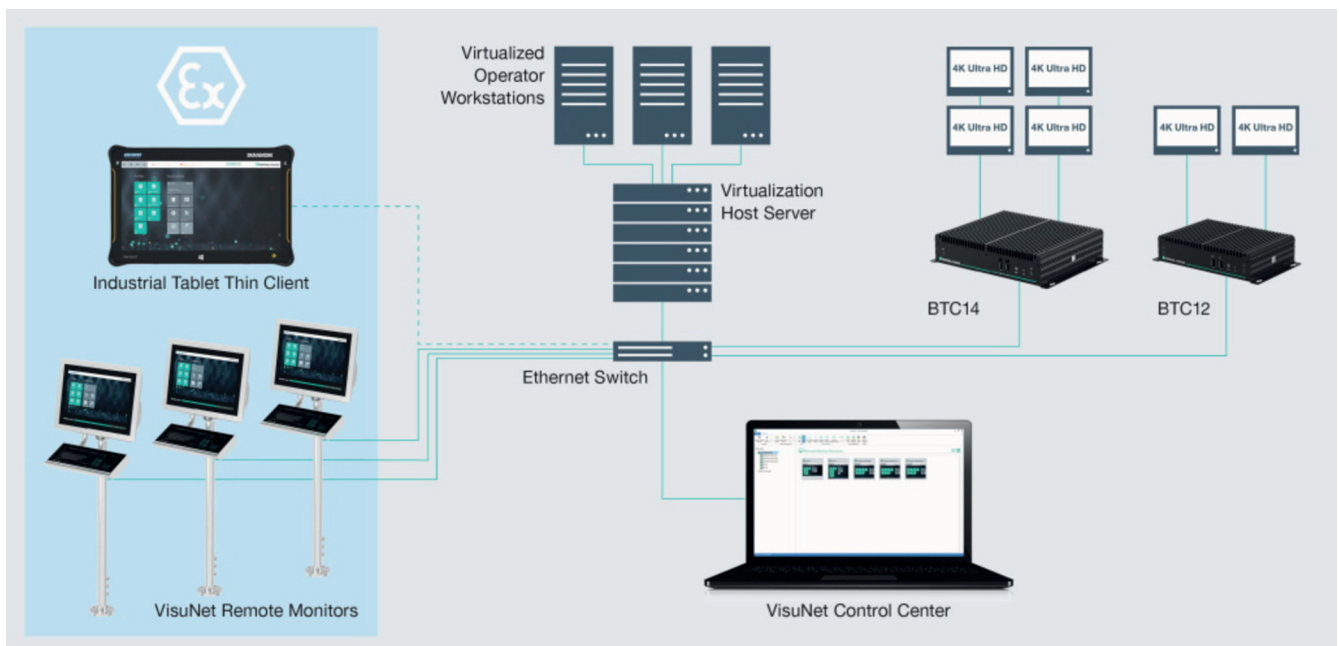
- Industrial-grade box thin client for 24/7 operation
- Long-term support with product availability for more than 5 years
- Supports modern Ultra HD (4K) setups with 60 Hz
- Compact footprint
- Option for Class I/Div 2 hazardous locations
- Option for ACP ThinManager "Ready"

Industrial Box Thin Client



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-TS3-DP-N1 and BTC12N-GP-TS3-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: t202251_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

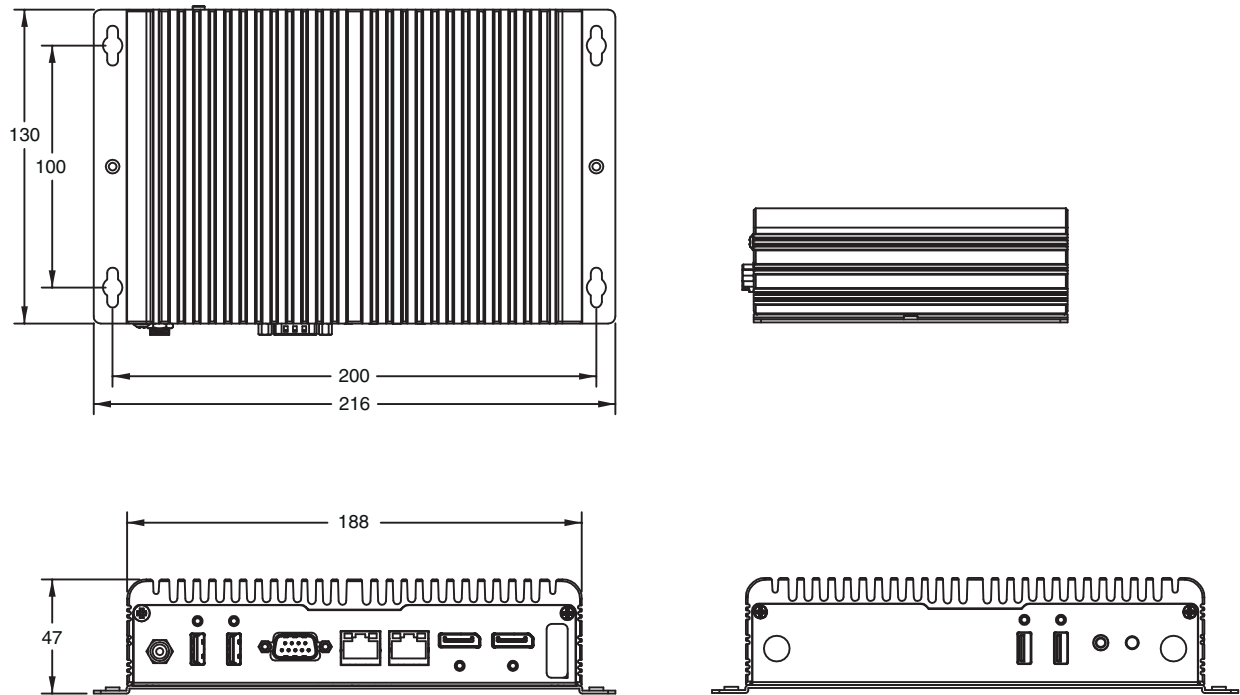
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 **PEPPERL+FUCHS**

Dimensions



Technical Data

Hardware		
Processor		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

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Technical Data

Software

Operating system	VisuNet RM Shell 5.x (based on Microsoft® Windows® 10 IoT Enterprise 2019 LTSC) Option TTR: ACP ThinManager Ready BIOS Option PC2: Windows 10 IoT LTSC Option: PC3 and PC4: Windows 10 IoT 2019 LTSC
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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)
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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

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	
			-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