



Intel Atom® Processor N3000
42" Bar Type Panel PC

BPC420-BW

Atom



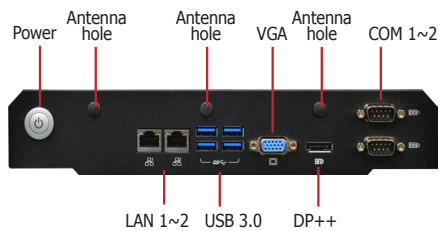
Fanless

Features

- 42" 1920x480 TFT LCD Bar Type Panel PC
- 700/1500 nits brightness
- Dual display outputs: VGA + DP++
- VESA mount (400x200)
- Rich I/O: 2 LAN, 2 COM, 4 USB 3.0



Panel

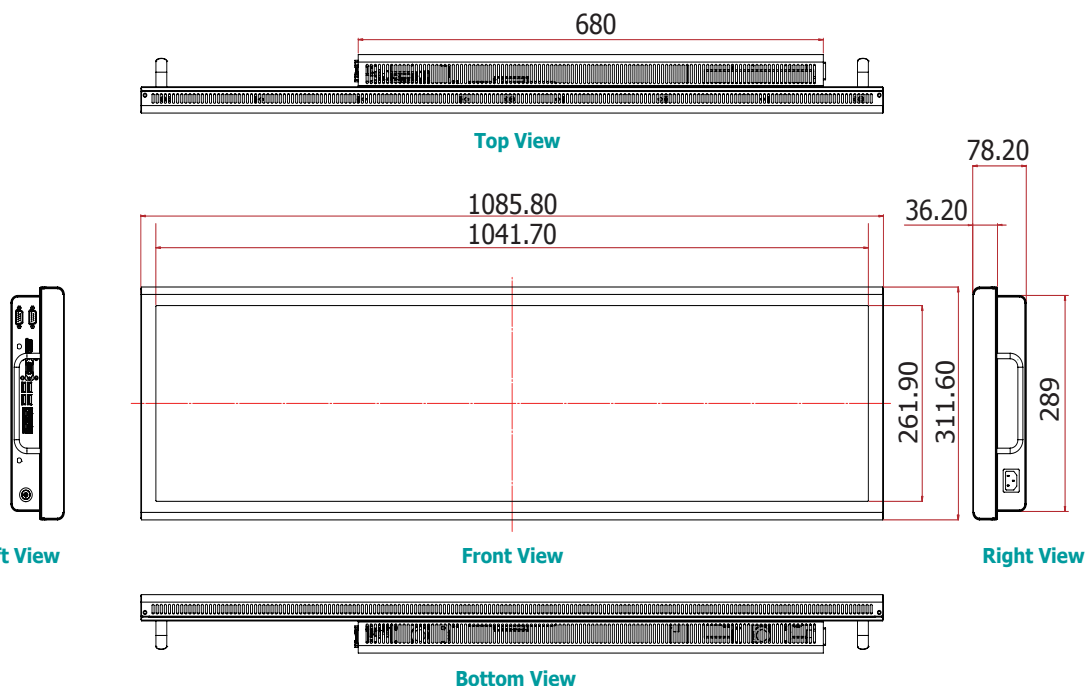


Left View



Right View

Dimensions





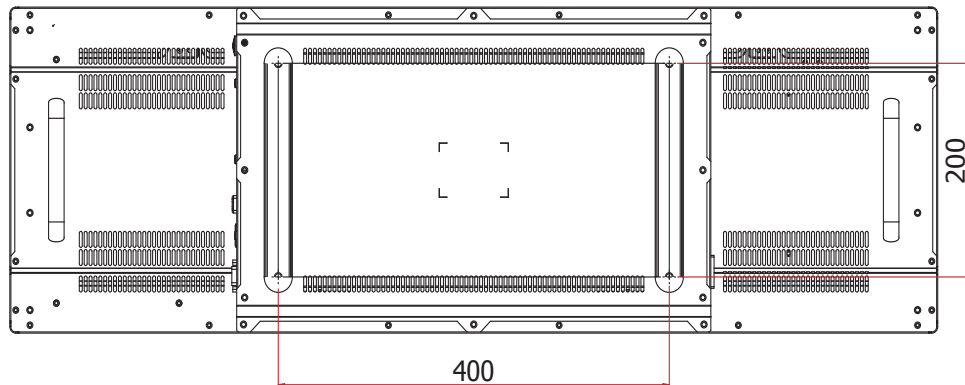
Specifications

SYSTEM	Processor	Intel® Pentium®/Celeron® Processor N3000 Family, BGA 1170 Intel® Pentium® Processor N3710, Quad Core, 2M Cache, 1.6GHz (2.56GHz), 6W
	Memory	One 204-pin SODIMM up to 8GB Single Channel DDR3L 1600MHz (4GB DDR3L memory by default)
	BIOS	Insyde SPI 64Mbit
DISPLAY AND TOUCH SCREEN	Display	42" 1920x480 TFT LCD Panel
	Brightness	700 cd/m ² (1500 cd/m ² available upon request)
	Contrast	4000:1
	Backlight Lifetime	50,000 hours
GRAPHICS	Controller	Intel® HD Graphics
	Feature	OpenGL 4.2, Direct X 11.1, OpenCL 1.2, OGL ES 3.0 HW Decode: H.264, MPEG2, VC1, VP8, H.265, MPEG4 HW Encode: H.264, MPEG2, MPEG4
	Display	1 x VGA 1 x DP++ VGA: resolution up to 2560X1600 @ 60Hz DP: resolution up to 3840x2160 @ 30Hz or 2560x1600 @ 60Hz
	Single Display	VGA + DP++
STORAGE		1 x Full-size Mini PCIe (mSATA) 1 x SATA-DOM (available upon request)
EXPANSION	Interface	1 x Half-size Mini PCIe (PCIe/USB) 1 x Full-size mSATA (USB/SATA) 1 x SIM (available upon request)
AUDIO	Audio Codec	Realtek ALC885-VD2-GR
ETHERNET	Controller	2 x Intel® I211AT PCIe (10/100/1000Mbps)
LED	Indicators	1 x Power LED
BOTTOM I/O	Ethernet	2 x GbE (RJ-45) (10/100/1000Mbps)
	Serial	2 x RS-232 (DB-9)
	USB	4 x USB 3.0 (type A)
	Display	1 x VGA 1 x DP++
	Audio	Speaker 2W+2W (available upon request)
	Buttons	1 x Power Button
	Antenna Connectors	3 x Antenna Hole for Wi-Fi or Cell Module
	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds
WATCHDOG TIMER		
POWER	Type	AC Input 12V AC Input 9V-36V (available upon request)
	Connector	C14 Power Inlet
OS SUPPORT		Windows 7 (32/64-bit) Windows 8.1 (64-bit) Windows 10 IoT Enterprise (32/64-bit) Ubuntu 15.10 (Intel graphic driver available)
MECHANISM	Construction	Sheet Metal
	IP Rating	IP65 Front Protection Glass (available upon request)
	Mounting	VESA Mount
	Dimensions (W x H x D)	TBD
	Weight	TBD
ENVIRONMENT	Operating Temperature	-10 to 50°C
	Storage Temperature	-10 to 65°C
	Relative Humidity	5 to 95% RH (non-condensing)
STANDARDS AND CERTIFICATIONS	Shock	OP: Half-sine, 3G @ 11ms Non-OP: Half-sine, 5G @ 11ms
	Vibration	OP: Random, 1Grms @ 5~500Hz, 30min Non-OP: Sweep sine, 3Grms @ 10~500Hz, 30min
	Certifications	CE, FCC Class A



BPC420-BW

▶ **VESA Mounting**



BPC420-BW



► **Ordering Information**

Model Name	Part Number	Description
BPC420-BWN3710	750-BC4200-000G	42" Bar Type Panel PC, Intel® Pentium® N3710, 700 nits, 4GB Memory, 32GB mSATA, RoHS
BPC420-BWN3710	750-BC4200-100G	42" Bar Type Panel PC, Intel® Pentium® N3710, 700 nits, 4GB Memory, 32GB mSATA, Speaker 2W+2W, RoHS
BPC420-BWN3710	750-BC4200-200G	42" Bar Type Panel PC, Intel® Pentium® N3710, 1500 nits, 4GB Memory, 32GB mSATA, RoHS
BPC420-BWN3710	750-BC4200-300G	42" Bar Type Panel PC, Intel® Pentium® N3710, 1500 nits, 4GB Memory, 32GB mSATA, Speaker 2W+2W, RoHS

► **Optional Items**

Optional Items	Part Number	Description
Wi-Fi	761-110091-000G	Wi-Fi kit, RoHS
Power Cord	785-PWRD	Power cord, Standards (USA/EUR/CH), 1.8m, RoHS
Front Protection Glass	TBD	Front protection glass

► **Packing List**

• 1 BPC420-BW Panel PC
• 1 CD disk includes:
- Manual

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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