

PANEL-PC, Fanless Atom E3940, 10.1" WXGA, 12-24VDC input PT-V10WB-200 Series



* Specifications, color and design of the products are subject to change without notice.

Model

- Base model with Intel Atom x5-E3940 Processor 1.91GHz, Panel Mount type
PT-V10WB-200-J104M05 (10.1 inch touchpanel, LCD (WXGA), Memory 8GB, without OS, M.2 card (MLC) 64GB, without Wireless LAN)

PT-V10WB-200R-J104M05 (10.1 inch touchpanel, LCD (WXGA), Memory 8GB, without OS, M.2 card (MLC) 64GB, Wireless LAN)

- OS-installed model with Intel Atom x5-E3940 Processor 1.91GHz, Panel Mount type

PT-V10WB-200-J104M05W19 (10.1 inch touchpanel, LCD (WXGA), Memory 8GB, Windows 10 IoT Enterprise 2019 LTSC 64bit (Japanese, English, Chinese, Korean), M.2 card (MLC) 64GB, without Wireless LAN)

PT-V10WB-200R-J104M05W19 (10.1 inch touchpanel, LCD (WXGA), Memory 8GB, Windows 10 IoT Enterprise 2019 LTSC 64bit (Japanese, English, Chinese, Korean), M.2 card (MLC) 64GB, Wireless LAN)

Features

- The compact design features flexibility in installation
With minimum interfaces such as USB3.2 Gen1 (USB3.0) x 3, LAN x 2, Audio x 1, and DisplayPort x 1 the compact size PC, (259(W)×23(D)×169(H)), features flexibility in installation.
- Contributing to running cost reduction and energy efficiency
Adopting the low-power platform of Intel® Atom™ Processor E3940 achieves lower power consumption while still ensuring sufficient performance.
- Fan-less design that reduces maintenance and inspection work
This product's spindle-less design eliminates CPU fan, and relieves the concern about dust or foreign matter to get into the product. The using parts that degrade over time is minimized to facilitate maintenance.
- VESA standard support
Conforming to the VESA standard (75×75), the product can be set on the various types of arms or stands.

Supported OS

- Windows 10 IoT Enterprise 2019 LTSC 64bit (Japanese, English, Chinese, Korean)

This product is the "All-in-One" type PC, which has a 10.1-inch size (WXGA 1280×800) LCD touch screen integrated.

Since only selected interfaces such as 1000BASE-T, USB 3.2 Gen1 (USB3.0), and Audio are provided, the product can be installed in a smaller space comparing to our earlier panel integrated computers.

Embedded-type CPU has been adopted. The use of readily available parts ensures the product to be applied easily. In addition, the use of CONTEC-customized BIOS allows support to be provided at the BIOS level.

* The contents in this document are subject to change without notice.

* Visit the CONTEC website to check the latest details.

* Visit the CONTEC website to check the latest OS.

* The information in the data sheets is as of November, 2020.

Specification

Functional Specifications

Item		Description
CPU		Intel Atom® x5-E3940 Processor 1.6GHz
BIOS		BIOS (mfd. by AMI)
Memory		8GB (204-pin SO-DIMM ECC on-board), PC3L-12800 (DDR3L 1600)
Graphic controller		Intel® HD Graphics 500 (CPU integrated)
LCD type	LCD type	10.1-inch TFT color LCD, WXGA (1280 x 800)
	Backlight	LED method, The ON/OFF software can control.
Touch screen	Resolution	WXGA (1280×800)
	Detection method	Capacitive type
	Connection	Internal USB port
External display output		DisplayPort x 1
Audio		HD Audio compliant, LINE OUT x 1 3.5p stereo minijack, Full-scale output level 1.1Vrms (Typ) Built-in monaural speaker x 1
LAN		Intel I210IT controller 1000BASE-T/100BASE-TX/10BASE-T RJ-45 connector x 2 (supports Wake On LAN)
Wireless LAN *1		IEEE 802.11ac/a/b/g/n
Bluetooth *1		4.2
USB		Type-A controller USB3.2 Gen1 (USB3.0)-compliant x 3 port
Storage		1 slot, M.2 2242, SATAIII M.2 card 64GB(MLC) on-board *2
Security (TPM)		TCG TPM2.0
Hardware monitoring		Monitoring CPU temperature, board temperature, power voltage
Watchdog timer		Software programmable, 255 level (1sec - 255sec) Time up allows reset
RTC/CMOS		Lithium backup battery life: 10 years or more The real-time clock is accurate within ±3 minutes (at 25°C) per month (CPU built-in RTC).
Power Management		Power management setup via BIOS Wake On LAN Supports ACPI Power management
Rated input voltage		12 - 24VDC
Range of input voltage		10.8 - 31.2V
Power consumption (Max)		12V 3.0A 24V 1.5A
External device power supply capacity		USB3.2 Gen1 I/F : +5V : 0.9A x 3
Physical dimensions (mm)		259(W) x 169(H) x 26(D) (Not including protrusions)
Weight		800g approx.

*1 Wireless LAN and Bluetooth are only available in the wireless models.

*2 It is already built into the product. The capacity that can be recognized from OS might be displayed fewer than an actual value.

Installation Environment Requirements

Item	Description
Operating ambient temperature	0 - +40°C *3
Non-operating ambient temperature	-10 - +60°C
Operating ambient humidity	10 - 90%RH (No condensation)
Non-operating ambient humidity	10 - 90%RH (No condensation)
Floating dust particles	Not to be excessive
Corrosive gases	None
Line-noise resistance	AC line / ±2kV, Signal line / ±1kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3)
Static electricity resistance	Contact discharge : ±4kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2) Atmospheric discharge : ±8kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance 0 - 57Hz/semi-amplitude vibration 0.075mm, 57 - 150Hz/1.0G, 40minutes each in X, Y, and Z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant)
Shock resistance	10G half-sine shock for 11ms in X, Y, and Z directions (JIS C 60068-2-27-compliant, IEC 60068-2-27-compliant)
Grounding	Class D grounding
Standard	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive) *4 TELEC (set with the certified wireless module) *5

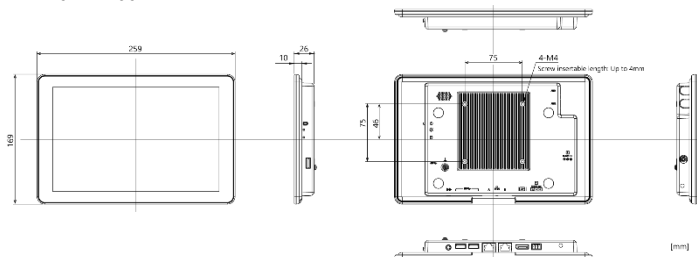
*3 Derating occurs due to the way of installation. For more details on this, refer to "Installation Requirements".

*4 The wireless model is excluded from CE Standard.

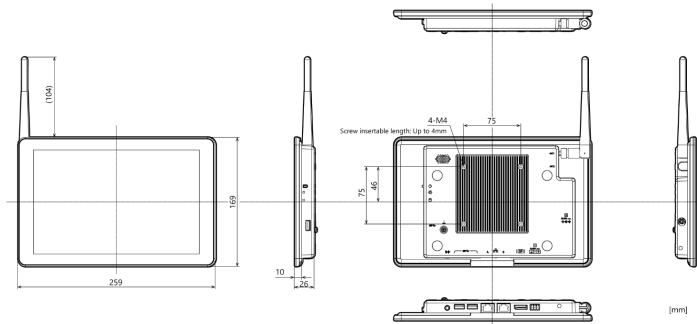
*5 The wireless module is set only in the wireless models.

Physical Dimensions

PT-V10WB-200



PT-V10WB-200R



Packing List

Product...1

3-pin Connector for Power Supply...1

Spacer...4

Hollow Spacer...4

Cable Tie...1

Antenna...1 *2

Product Guide...1

IPC Precaution List...1

Warranty Certificate...1

Serial Number Label...1

Royalty Consent Contract...1 *1

Recovery Disk...1 *1

*1 Only packed in the following product with the OS installed model.
PT-V10WB-200-J104M05W19, PT-V10WB-200R-J104M05W19.

*2 Only packed in the following product with the Wireless function model.
PT-V10WB-200R-J104M05, PT-V10WB-200R-J104M05W19

List of Options

Stand

IPC-SND-03

Desk stand

AC adapter

PWA-60AWD2

SWITCHING AC ADAPTER
(24VDC 2.5A) DC jack type

Antenna extension cable

IPC-RPSMA-2

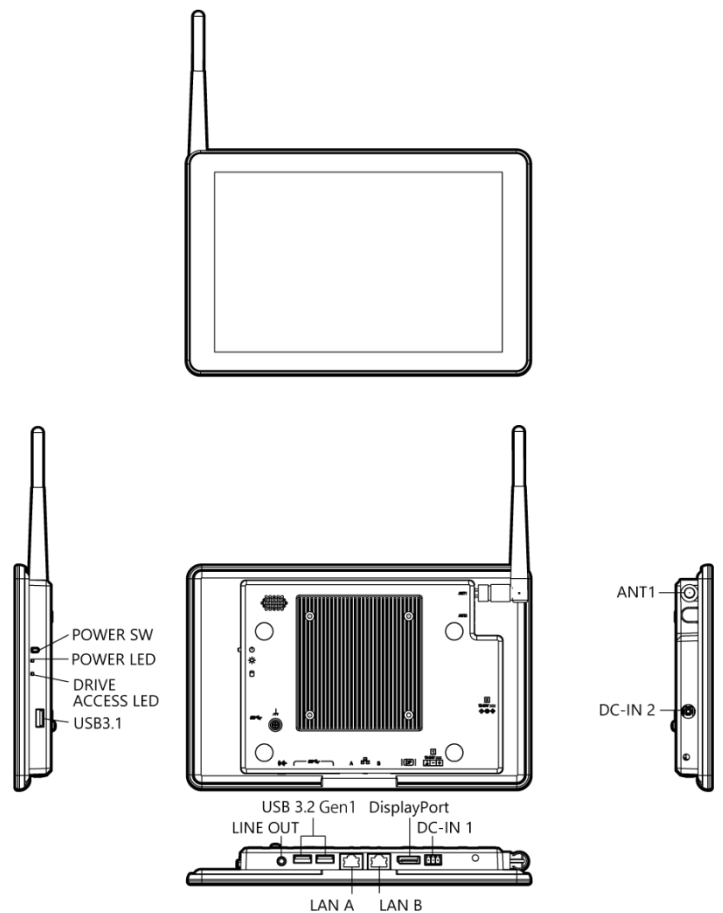
RP-SMA connector coaxial cable

Caution

If a product other than our option is used, the normal operation may be impaired or the functions may be limited.

* Check the CONTEC's Web site for the latest information on these options.

Component Name



Component Function

Name	Function
DC-IN 1	DC power connector / terminal
DC-IN 2	DC power connector / jack
POWER SW	Power switch
POWER LED	Power ON display LED
DRIVE ACCESS LED	Drive access display LED
LINE OUT	Line out (3.5p PHONE JACK)
USB3.2 Gen1	USB3.2 Gen1 (USB3.0) port, TYPE-A connector x 3
LAN A	Ethernet 1000BASE-T/100BASE-TX/10BASE-T, RJ-45 connector
LAN B	Ethernet 1000BASE-T/100BASE-TX/10BASE-T, RJ-45 connector
DisplayPort	Display (20-pin, female)
ANT1	Antenna connector (Wireless LAN / Bluetooth) *1

*1 Antenna connectors are available only on the wireless models.

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