

# BX-300 Series Product Guide

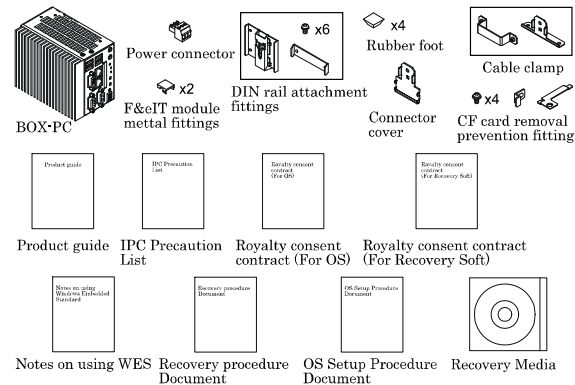
## CONTEC CO.,LTD.

Thank you for purchasing the CONTEC product. The product consists of the items listed below. Check, with the following list, that your package is complete. If you discover damaged or missing items, contact your retailer.

### Product Configuration List

	BX-300-DCxx00 [Base Model]	BX-300-DCxx11 [OS Preinstall Model]
Name	Pos.	Pos.
BOX-PC	1	1
Product guide (this sheet)	1	1
Power connector	1	1
F&eIT module metal fittings	2	2
DIN rail attachment fittings set	1	1
Rubber foot	4	4
CF card removal prevention fitting	1	1
CF card removal prevention fitting (bottom face side)	1	1*
Washer assembled screw, M3x7	6	6
Washer assembled screw, M3x5	4	4
IPC Precaution List	1	1
Royalty consent contract (For OS)	None	1
Royalty consent contract (For Recovery Soft)	None	1
Recovery procedure Document	None	1
OS Setup procedure Document	None	1
Notes on using Windows Embedded Standard	None	1
Recovery Media	None	1

\*1 It is attached to the main body.



### About a User's Manual

The User's Manual of this product is offered as the PDF file in our web page. With it, since information such as a setup of hardware, each component function and BIOS setup is indicated, please refer to it if needed.

### When using a device module of the F&eIT series

The driver library for using a device module of the F&eIT series is not attached a product. When you use a device module, you need to download the driver library [API-SBP(W32)] from our web site. The driver library is offered in Win32API function (DLL) form.

### When using a device module with not pre-installed OS

When you use a device module with not pre-installed OS, please download IPC-SLIB-01 (driver & utility software set) from our web site on demand.

### Inquiry

Contact your retailer.

### Limited One Year Warranty

CONTEC products are warranted by CONTEC to be free from defects in material and workmanship for up to one year from the date of purchase by the original purchaser. Replacement or repair will be free of charge only when this device is returned to CONTEC freight prepaid with an original invoice.

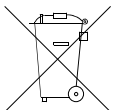
This warranty is not applicable for scratches or normal wear, but only for the electronic circuitry and original products. The warranty is not applicable if the device has been tampered with or damaged through abuse, mistreatment, neglect, or unreasonable use, or if the original invoice is not included, in which case repairs will be considered beyond the warranty policy. If a replacement with a new device is needed, regular factory prices will be charged, the product will be returned to you COD, and no other written warranty will apply.

The obligation of the warrantor is solely to repair or replace the product. In no event will the warrantor be liable for any incidental or consequential damages due to such defect or consequences that arise from inexperienced usage, misuse, or malfunction of this device.

### How to Obtain Service

For replacement or repair, return the device freight prepaid, with a copy of the original invoice. Please obtain a Return Merchandise Authorization number (RMA) from our Sales Administration Department before returning any product. No Product will be accepted without an RMA number.

### About the handling of the battery and the storage battery in E U signatory



Note: This symbol mark is for EU countries only.

This symbol mark is according to the directive 2006/66/EC Article 20

Information for end-users and Annex II.

This symbol means that batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste. If a chemical symbol is printed beneath the symbol shown above, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration.

This will be indicated as follows:

Hg: mercury (0.0005%), Cd: cadmium (0.002%), Pb: lead (0.004%)

These ingredients may cause serious hazardous for human and the global environment.

Please refer to the user's manual for the annulment of detaching a detailed battery specification and the battery and the batteries.

### Specification

**Table1 Functional Specification**

Model	BX-300-DC5xxx
CPU	Intel® Atom™ Processor Z530P 1.60GHz (FSB533MHz)
Chip set	Intel® US15WP
BIOS	BIOS (mfd. by Award)
Memory	1GB, 200-pin SO-DIMM socket x 1, PC2-4300DDR2 533/DDR2 SDRAM
Graphic	
Controller	Built-in Intel® US15WP
Video RAM	Using main memory
Video BIOS	64KB(C000H-CFFFFH)
System resolution	640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 1024, 1360 x 768, 1400 x 1050, 1920 x 1200@60Hz (16,770,000 colors, ReduceBlanking)
Audio	HD Audio compliant, LINE OUT x1, MIC IN x1
LAN *2	Intel 82574L Controller, 1000BASE-T/100BASE-TX/10BASE-T, Wake On LAN support
USB	4 ports (USB 2.0 compliant)
Serial I/F	RS-232C (general purpose): 2 port, Baud rate: 50 ~ 115,200bps
Hardware monitoring	Monitoring of the CPU and power supply voltage
RTC/CMOS	Lithium backup battery life: 10 years or more. The real-time clock is accurate within ±3 minutes (at 25°C) per month (US15WP integrated RTC).
Power Management	Power management setup via BIOS, Power On by Ring / Wake On LAN, Supports PC98/PC99 ACPI Power management
LED Display	Power, CompactFlash access, user programmable LED x 2
F&eIT I/F	It can be accommodated up to 8 F&eIT series device modules.
BUS EXPANDE (PCIe)	PCI Express 1.0a (x1) compliant PCI Express cable port
Interface	
Display	1 port (15pin HD-SUB connector [Analog RGB] x 1)
Audio	Line OUT: 4.5 Stereo mini jack, Full-scale output level 1.2Vrms (Typ.), Dual 60mW Amplifier MIC IN: 4.5 Stereo mini jack, Full-scale input level 1.6Vrms (Typ.)
CF card slot	CF CARD Type 1 x 2, bootable, BX-300-DC5000: None, BX-300-DC5311: Finished mounting CF (2GB, 1 partition)*1
LAN *2	2 port (RJ-45 connector)
USB	4 port (TYPE-A connector x 4)
RS-232C	2 port (9pin D-SUB connector [male])
F&eIT	1 port
PCI Express cable	1 port (18pin PCI Express External Cabling connector)
Power supply	
Rated input voltage	12 ~ 24VDC *3
Range of input voltage	10.8 ~ 31.2VDC
Power consumption (Max.)	12V 1.8A, 24V 1.0A (When no using USB-powered or F&eIT-powered peripherals) 12V 4.3A, 24V 2.3A (When using USB-powered or F&eIT-powered peripherals)
External device power supply capacity	CF card slot: +3.3V 1A (500mA x 2), USB I/F: +5V 2A (500mA x 4) F&eIT I/F: +5V 3A
Physical dimension (mm)	94.0(W) x 120.0(D) x 74.7(H) (No protrusions)
Weight	About 1.1kg (Excluding attachment fittings)

\*1 The capacity of CF is a value when 1GB is calculated by 1 billion bytes. The capacity that can be recognized from OS might be displayed fewer than an actual value.

\*2 If you use the 1000BASE-T, be careful of the operating temperature. For more details on this, refer to User's manual.

\*3 Use a power cable shorter than 3m.

**Table2 Environment Requirements**

Model	BX-300-DC5xxx
Operating temperature *4	0 ~ 50°C (With 1000BASE-T: 0 ~ 45°C)
Storage temperature	-10 ~ 60°C
Humidity	10 ~ 90%RH (No condensation)
Floating dust particles	Not to be excessive
Corrosive gases	None
Line noise resistance	Line noise: AC line / ±2kV *5, 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: 10 ~ 57Hz/semi-amplitude 0.15 mm 57 ~ 500Hz/2.0G, 40 min. each in x, y, and z directions (JIS C60068-2-6 compliant, IEC60068-2-6 compliant)
Impact resistance	15G, half-sine shock for 11 ms in x, y, and z directions (JIS C 60068-2-6 compliant, IEC60068-2-6 compliant)
Grounding	Class D grounding (previous class 3 grounding), SG-PG / continuity

\*4 For more details on this, please refer to chapter 3, "Installation Requirements" of our user's manual.

\*5 A When AC-DC power supply unit "IPC-ACAP12-04 (manufactured by TDK-Lambda)" is used.

### Option Available

We have option products, such as a silicon disc, CF card, and a display.

The more details information about option should look at Web.

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