

Manual for OS Pre-installed Type

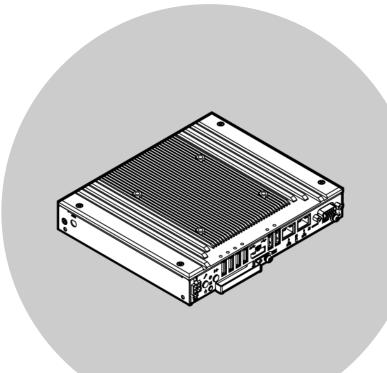
(Windows 10 IoT Enterprise 2019 LTSC)

Box computer

BX-T3000 Series

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CONTEC CO., LTD.

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Introduction

This will inform you of the information you need to know before using this product, such as an overview of the OS equipped with the preinstalled type, the overall configuration of this manual, the various manuals associated with this product, and so on.

1.About the Product

Windows 10 IoT Enterprise 2019 LTSC, equipped with the preinstalled type, is the OS for embedded applications. CONTEC's preinstalled types perform customization to build the OS based on a configuration determined in advance.

In this manual you will find basic information on the installed OS, as well as explanations of setup procedures and recovery procedures.

There are functional differences between Windows 10 IoT Enterprise 2019 LTSC and other Windows 10 versions.

Below are the main functions present in other Windows 10 versions but not in Windows 10 IoT Enterprise 2019 LTSC.

- System applications Store, Cortana
- Universal applications
 - E-mail, Calendar, OneNote, Weather, News, Sports, etc.

2.Related Manuals

The manuals related to the product are listed below.

Read them as necessary along with this document.

Must Read the Followings.

Name	Purpose	Contents	How to get
Product Guide	Must read this after opening the package.	This lists the product configuration and describes the precautions.	Included in the package (Printed matter)
Reference Manual	Read this when operating the product.	This describes the hardware aspects such as functions and settings.	Download from the Contec website (PDF)
IPC Precaution List	Read this before operating the product.	This describes the precautions when using the product.	Download from the Contec website (PDF)
MICROSOFT SOFTWARE LICENSE TERMS *1	Must read this after opening the package.	This describes the rights and conditions of user when using Windows software.	Download from the Contec website (PDF)
Manual for OS Pre-installed Type (This manual) *1	Must read this after opening the package.	This explains basic OS information, setup procedures and recovery procedures.	Download from the Contec website (PDF)
Precautions on using Wireless LAN *2	Must read this after opening the package.	This describes the precautions when using the wireless LAN.	Download from the Contec website (PDF)

*1 Reference for OS pre-installed types only.

*2 Reference for Wireless LAN models only.

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Download Manuals

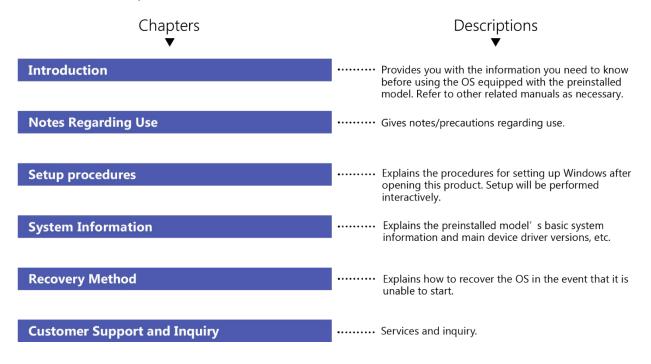
Download the manuals accordingly from the following URL.

Download

https://www.contec.com/download/

3.Manual composition

This manual is composed as follows:



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Notes Regarding Use

This manual explains the precautions for using the product safely. Please make sure to read this before using this product.

1.Safety Information

This document provides safety information using the following symbols to prevent accidents resulting in injury or death and the destruction of equipment and resources.

Understand the meanings of these labels to operate the equipment safely.

Signal word used to indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.
Signal word used to indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.
Signal word used to indicate a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

2. Handling Precautions

- The specifications of the product are subject to change without notice for enhancement and quality improvement. Even when using the product continuously, be sure to read the manual in the CONTEC's website and understand the contents.
- Do not modify the software. CONTEC will bear no responsibility for any problems, etc., resulting from modifying the software.
- Regardless of the foregoing statement, CONTEC assumes no responsibility for any errors that may appear in this document or for results obtained by the user as a result of using the software.

3.About Unified Write Filter

Unified Write Filter function (referred to as "UWF" in this document) is the new filtering which combined EWF, FBWF, and Registry filter.

UWF has deterred the write to DISK by redirecting the write to DISK from operating system or application to overlay.

- If you are updating software, adding data, or changing the settings, make sure to disable the UWF filter settings before doing so.
- Even if shut down, the contents written to the memory will not be written back to the disk. They will be deleted if you shut down or restart the system.

UWF of preinstalled type is not suitable for all configurations.

In particular, it is unsuitable for "the configuration which a lot of write requests generate from operating system or application to protected DISK." Under such an environment, restarting Windows is frequently needed.

The following describes a limitation for the specification of the UWF function in Windows 10 IoT Enterprise 2019 LTSC. Understand it completely for implementation.

CAUTION

- Removable media (USB memory etc.) cannot be set as the UWF candidate.
- Folders or files that are excluded from protection cannot be moved into the protection area.
 If a "Recycle Bin" is an object for protection, it becomes as a deleting error since Explorer once moves the file to "Recycle Bin". In this case, delete the object without going through "Recycle Bin" by using Shift+Del keys on the keyboard.
- The function of File Exclusion and Registry Exclusion are available only in a FAT/NTFS volume.
- Volumes, such as exFAT, can be protected by UWF. However, the function of protect exclusion cannot be used.
- UWF supports NTFS. However, since the journal file of NTFS is recorded until a services of UWF begins, writing to DISK occurs upon starting up.
- UWF cannot protect a Hidden partition.
- If UWF is set to Enabled and starts up, some functions in Windows are changed for the performance improvement of UWF.
- Check the technical information for details from the link listed below.
 Please refer to the Microsoft technical information for details about UWF.
 https://msdn.microsoft.com/ja-jp/library/windows/hardware/mt572001(v=vs.85).aspx
- In early stages, a UWF overlay region serves as maximum size of 1024 MB.
 The present operating condition of a UWF overlay region can be checked by the following command.

>uwfmgr.exe overlay get-consumption

Systems operation is required so that a UWF overlay region may not be used to maximum size.

As the application software used by a user or Windows operation can be affected, it is necessary to restart Windows in accordance with a system application, and to release a UWF overlay region.

- The following measures are sufficiently effective though there are no complete measures.
- Avoid writing in the protected volume as much as possible.
- When writing in a log file, change to other volume that are excluded from protection write. (Drives: USB memory and network storage, etc.)

4.Security Warning

When connecting to the network, be aware of security-related problems. See the examples of Security measures below and set up the product properly along with the network devices.

1. Information security risks

- Unauthorized access from the outside through a network could cause the system halt, data damage, or exposure to malware. *1
- Invaded and used as a stepping stone, a device might attack the others through networks. (a victim becomes an assailant)
- Information might leak without realizing due to the connection to the network.
- Secondary damages such as harmful rumors, liability in damages, social credibility fall, and opportunity loss are expected led by the troubles described above.
- *1: Malware (Malicious Software) is software that brings harm to a computer system and performs unintended operations.

2. Security measures – e.g.

- Do not keep using the default password. (Refer to the product manual for the password setting).
- Set a strong password.

Combined with upper and lowercase letters, and numbers so that it cannot be easily analogized by others.

- Change the password periodically.
- Disable unnecessary network services and functions.
- Restrict access to the network with network devices. *2
- Restrict ports to be released on the network with network devices. *2
- Create a closed network connection using such as dedicated network or VPN*3
- *2: Inquire for setting procedure to manufacturers.
- *3: VPN (Virtual Private Network) a secured network that wards off unauthorized access by protecting the communication path with authentication and encryption.

Unfortunately, there are no perfect ways to avert unauthorized access or close a security hole that are endlessly found day and night.

Please understand that risks are always involved with the Internet connection, and we strongly recommend a user should constantly update information security measures.

Setup procedures

This manual describes the setup procedure that a user needs to perform after unpacking the product with a pre-installed operation system.

The setup of Windows is performed interactively.

1. Windows setup

Check that the monitor, the keyboard and the mouse are connected with the PC. Do not connect other devices until a Windows setup is completed. After confirming the connections, turn on the PC power.

- The screen change during the setup operation may take time for a while.
- Do not turn off the power of the personal computer during the setup operation. Turning off the computer power before completing the setup will result in Windows system damages.
- The HDD/SSD built into the preinstalled type are GPT formatted. And, OS area is formatted by NTFS.
- The display driver, the LAN driver, the audio driver, etc. are already incorporated. However, since a network setup is needed separately, please consult with the system administrator of a connection place network.
- It is not necessary to enter a Windows product key into this product.
- If you do not connect the PC to the Internet at all, activating Windows (license authorization) is unnecessary.

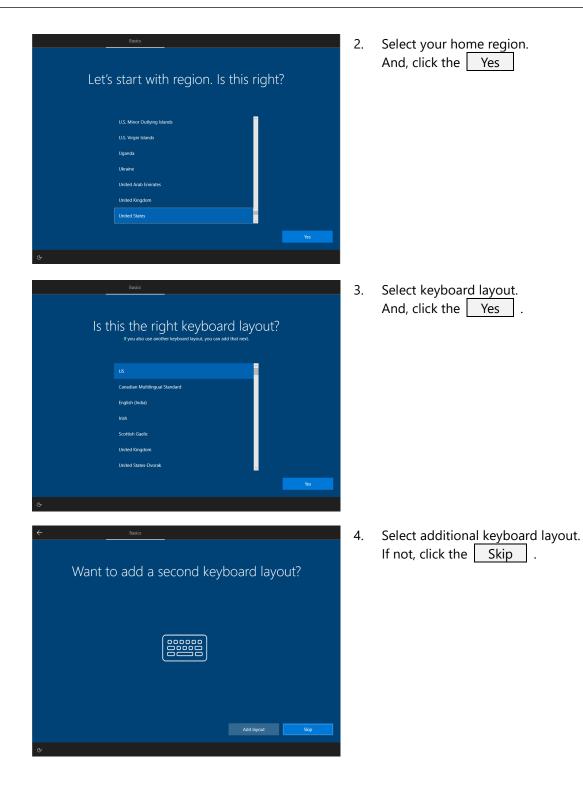
Please wait for the Windows setup starts.

Follow the instructions on the display after start-up.

Welcome		
C		
Co	ntinue in selected language?	
	English (United States)	
	日本語	
	한국어	
	中文(简体)	
		Yes
		165
Ģ		

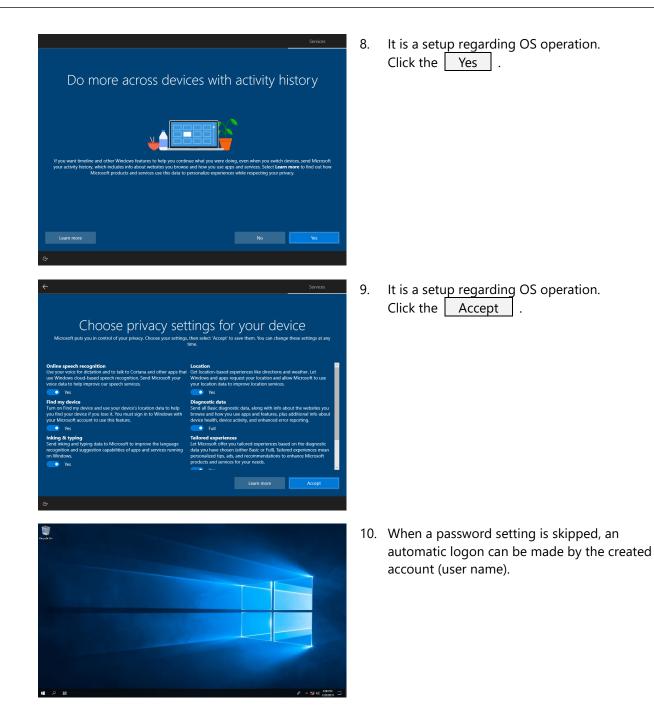
 The language choice for Windows appears on the display. Select the language. Display language changes to the selected one. And, click the Yes

The example which selected English explains a step.



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<section-header><table-cell><text><text><image/><text></text></text></text></table-cell></section-header>	6.	Then, the display of creating account can be viewed. Enter the account name to be used. Click the Next.
<page-header></page-header>	7.	Then, the display of creating password can be viewed. When a password is omitted, an automatic logon can be made by the created account. Click the Next .



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System Information

Explains the preinstalled type's basic system information and main device driver versions, etc.

1.Basic Information

☑Embedded function □Unembedded function Item **Details** Version 1809 Build version 17763. 2183 (KB5005568) Language ☑ English components ☑ Japanese ☑ Simplified Chinese ☑ Korean □ Other () Component Simplified Chinese English Japanese Korean Basic \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Font \checkmark Handwriting \checkmark \checkmark \checkmark \checkmark recognition Optical character \checkmark \checkmark \checkmark \checkmark recognition Speech synthesis \checkmark \checkmark \checkmark \checkmark Speech recognition \checkmark \checkmark \checkmark Main functions and Internet Explorer 11.1790.17763.0 versions Microsoft Edge 80.0.361.53 Windows Media Player 12.0.17763. 2183 Microsoft .NET Framework 4.7.2 Remote Desktop Connection 10.0.17763 10.6 Remote Desktop Protocol CONTEC utilities **CONTEC Manager** 4.1.7 TPBK(S) _ Supply schedule Mainstream support end date 2024/01/09 Extended support end date 2029/01/09 End of Life 2028/11/30

2. Storage and Partition Configuration

The following is for a M.2 SSD model with 128 GB

📅 Disk Managemen	t						_	\times
<u>F</u> ile <u>A</u> ction <u>V</u> iew	<u>H</u> elp							
Volume	Layout	Туре	File System	Status	Capacity	Free Spa	% Free	
🛲 (Disk 0 partition 1)	Simple	Basic		Healthy (E	260 MB	260 MB	100 %	
📟 Windows (C:)	Simple	Basic	NTFS	Healthy (B	111.52 GB	89.87 GB	81 %	
- Disk 0								
Basic (111.77 GB (2)	60 MB			dows (C:) 52 GB NTFS				
	lealthy (EFI Syste	em Partition		Ithy (Boot, Page Fi	ile, Crash Dump	, Primary Parti	tion)	
2								
.								
Unallocated Pri	mary partition							
. Mindawa (C) Dara				×				
🐌 Windows (C:) Pro	perties		,	~				
Security	Previous Vers	sions	Quota					
General T	Tools H	ardware	Sharing					
Wind								
	ows							
Type: Local	Disk							
File system: NTFS								
	22 247 147 0	00 h. d. a.	21.0.00					
Used space:	23,247,147,00		21.6 GB					
Free space:	96,496,033,7	02 bytes	89.8 GB					
Capacity:	119,743,180,80	00 bytes	111 GB					
)						
	Drive C:		<u>D</u> isk Cleanup					
Compress this drive	e to eave diak set							
Allow files on this of			in addition to					
file properties	anve to nave cont	ents indexed	in addition to					
Г	OK	Cancel	Apply					
L.			2000					

* The disk usage indicated is a reference value.

3.Programs and Features

1. Installed software

View a list of installed software

Programs and Features						- 🗆	×
← → × ↑ 🖸 → Control P	Panel > All Control Panel Items > Programs and Features				Search Program	ms and Features	P
Control Panel Home	Uninstall or change a program						
View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Renair					
Turn Windows features on or	to annistan a program, select it norn the list and aren	circk oninistan, change, or hepain.					
off	Organize 💌						?
	Name ■ ContecManager ■ Intel(R) Chipset Device Software ■ Intel(R) Network Connections 23.5.2.0 ▲ Intel® Graphics Driver ▲ Intel® Management Engine Components ■ Microsoft Visual C++ 2015-2019 Redistributable (x64) A Qualcomm Atheros 11ac Wireless LAN Installer ■ Qualcomm Atheros Bluetooth Installer (64)	Publisher CONTEC Intel(R) Corporation Intel Intel Corporation Intel Corporation Microsoft Corporation Qualcomm Qualcomm Atheros	Installed On Si: 9/28/2021 10/11/2021 9/28/2021 10/11/2021 10/11/2021 10/11/2021 10/11/2021 9/28/2021 9/28/2021	ze 11.8 MB 2.59 MB 29.7 MB 74.2 MB 2.71 MB 22.1 MB 40.5 MB	Version 4.1.7 10.1.18383.8213 23.5.2.0 26.20.100.7985 2007.14.0.1484 14.28.29325.2 11.0.10511 10.0.0.919		

2. Installed updates

View a list of installed updates.

🐼 Installed Updates					- 🗆	×
← → × ↑ 🐼 > Control P	Panel > Programs > Programs and Features > Installed U	pdates		ٽ ~	Search Installed Updates	P
Control Panel Home Uninstall a program 9 Turn Windows features on or	Uninstall an update To uninstall an update, select it from the list and then	click Uninstall or Change	2.			
off	Organize 🔻					• ?
	Name Microsoft Windows (4) Dydate for Microsoft Windows (KB4541301) Security Update for Microsoft Windows (KB5005568) Servicing Stack 10.0.17763.2170 Security Update for Microsoft Windows (KB5005112)	Program Microsoft Windows Microsoft Windows Microsoft Windows Microsoft Windows	Version	Publisher Microsoft Corporation Microsoft Corporation Microsoft Corporation	Installed On 9/28/2021 9/28/2021 9/28/2021 9/28/2021	
	Currently installed updates 4 updates installed					

3. Enable or disable Windows functions

.NET Framework3.5 is installed in the preinstalled type.

-		\times	Selecting "Turn Windows features on or off" will
e feature is and 3.0) ion HTTP /	turned o	on.	allow you to check related items.
Services		>	
alling some	features.	×	If you have used "Turn Windows features on or off" to disable a related item, when reenabling it a "File download" message will be displayed and you will not be able to enable it. In order to reenable it, you will need to follow the instructions on the screen while connected to the Internet to perform setup, or
our PC			recover the preinstalled type.
	e feature is and 3.0) ion HTTP ion Non-H Services	of feature off, clear i e feature is turned of and 3.0) ion HTTP Activatio ion Non-HTTP Act Services	e feature off, clear its feature is turned on. and 3.0 ion HTTP Activation ion Non-HTTP Active Services

Under CONTEC preinstalled type factory default settings, Device Lockdown is enabled.

👿 Windows Features	-		×				
Turn Windows features on or off							
To turn a feature on, select its check box. To turn check box. A filled box means that only part of th							
🖃 🗹 🔄 Device Lockdown			^				
Custom Logon							
Keyboard Filter							
Shell Launcher							
Unbranded Boot							
Unified Write Filter							
Guarded Host							
🕀 🗌 📙 Hyper-V							
🗹 📙 Internet Explorer 11							
🕀 🔲 📕 Internet Information Services							
Internet Information Services Hostable Web Core							
I Legacy Components			×				
	ОК	Can	cel				

Using the lockdown function, you can restrict unintentional user operations or control information displayed on the screen.

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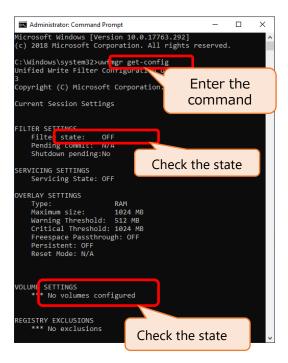
Function name	Overview
Shell Launcher	Turning on the power, the device will sign in to an environment in which only designated programs can be run.
Custom Logon	Suppresses Windows component display during Windows startup, restart and shutdown, as well as when signing in.
Keyboard Filter	Prevents undesirable keyboard operations.
Unbranded Boot	Suppresses the display for the Windows loading screen. <u>https://docs.microsoft.com/ja-jp/windows-</u> <u>hardware/customize/enterprise/unbranded-boot</u>
Unified Write Filter (UWF)	Restricts writing to the protected disk, preventing alterations and falsifications of the system.

4. UWF settings

For UWF settings, use either the Microsoft console application UWF manager (uwfmgr.exe) or CONTEC Manager, the GUI application installed in the preinstalled type.

The UWF function's filter is disabled by default. The following explains the procedure for checking the UWF settings using UWF manager (uwfmgr.exe).

 \Box indicates a space.



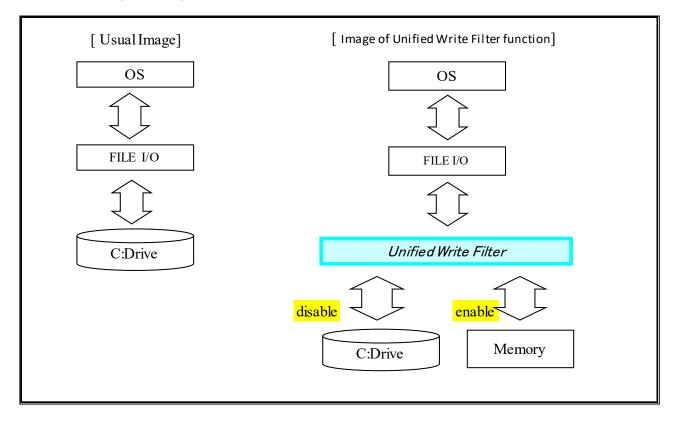
Start Command Prompt (with administrator authority).

Input "uwfmgr□get-config" and press the [Enter] key. View current settings status.

ltem	Display	Meaning
Volume state	OFF	Enabling the
		UWF
	ON	Disabling the
		UWF
VOLUME	None/	Invalid Volume
SETTINGS	Un-protected	Protect
	Protected	Effective Volume
		Protect

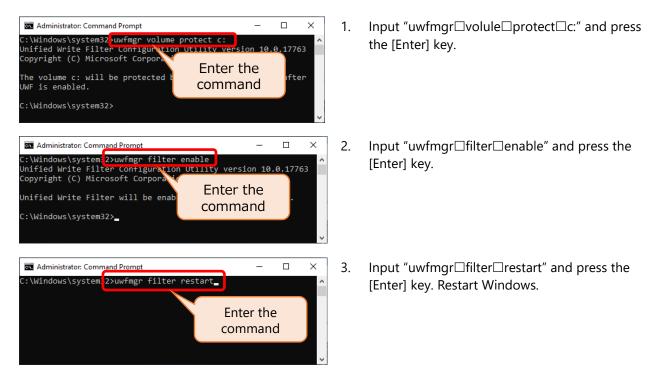
This is the CONTEC factory default settings status.

When UWF is enabled, writing to the disk will be restricted, allowing for the lifetime of disks with writing restrictions to be lengthened. It also allows you to prevent unintentional system alterations. Below is a configuration graph of the UWF functions.



The following explains the method for setting write protection for the C drive using UWF manager (uwfmgr.exe).

 \Box indicates a space.



G Administrator: Command Prompt	-	
Microsoft Windows [Version 10.0.17763.292] (c) 2018 Microsoft Corporation. All rights reserved.		
C:\Windows\systen32>uwfmgr get-config Unified Write Filter for the	9.0.17763	
Current Session Settings Filter state: ON	Enter the command	
Shutdown pending:No SERVICING SETTINGS Servicing State Check the state		
OVERLAY SETTINGS Type: RAM Maximum size: 1024 MB Warning Threshold: 512 MB Critical Threshold: 1024 MB Freespace Passthrough: OFF Persistent: OFF Reset Mode: N/A		
VOLUME SETTINGS Volume 14f78f91-327b-4dbe-802a-40e7c90444a0 [C:] Volume state: Protected Volume ID: 14f78f91-327b-4dbe-802a-40e7c90	0444a0	
File Exclusions: Current Session Exclusions for Volume *** No exclusions Check	the state	[C:]

 Input "uwfmgr□get-config" and press the [Enter] key. View current setting status.

ltem	Display	Meaning
Filter state	OFF	Disabling the UWF
	ON	Enabling the UWF
Volume state	Un-protected	Invalid Volume Protect
	Protected	Effective Volume Protect

4.Set to factory default values

This section explains the preinstalled type's various factory default settings. You can reset these settings unless their values are specially designated.

1. Panel

The initial screen resolution will be the recommended resolution for the connected display. To change screen settings (resolution, color, refresh rate, rotation, etc.), please use the Windows [Display settings].

2. Ethernet settings

The preinstalled type's product Ethernet display and the OS Ethernet recognition status are shown below.

Product Ethernet display	OS Ethernet recognition
LAN A	Ethernet
LAN B	Ethernet 2

The LAN recognized names are set to match the language selected during initial Windows setup.

The above are the LAN recognized names when Japanese was selected during Windows setup. Even if you change the language in Windows later, the LAN recognized names will not change automatically. If you want to display the LAN recognized names to match the language, you need to change the settings manually.

If changing the network settings, select [Control Panel] \rightarrow [All Control Panel Items] \rightarrow [Network and Sharing Center], and you can set them in [Change adapter settings]. The preinstalled type's factory default network settings are shown below.

ernet F	Protocol Version 4 (TCP/IP	v4) Properti	es			×
neral	Alternate Configuration					
his cap	n get IP settings assigned au pability. Otherwise, you need appropriate IP settings.					
	btain an IP address automati	ically				
	e the following IP address:					
<u>I</u> P ad	ddress:		1.			
Sybr	net mask:		1.			
<u>D</u> efa	ult gateway:					
	btain DNS server address au	tomatically				
	e the following DNS server a					
Prefe	erred DNS server:		1.			
<u>A</u> lter	nate DNS server:					
V	alidate settings upon exit			Ad	vanced	

[Internet Protocol Version 4] IP address : automatically DNS : automatically

General			[Interne IP addre
	ned automatically if your network supports this capability. Ir network administrator for the appropriate IPv6 settings.		DNS : a
● <u>O</u> btain an IPv6 address au	tomatically		
Use the following IPv6 add	lress:		
IPv6 address:			
Sybnet prefix length:			
Default gateway:			
Obtain DNS server addres	s automatically		
Use the following DNS serv	/er addresses:		
Preferred DNS server:			
<u>A</u> lternate DNS server:			
Validate settings upon ex	it Ad <u>v</u> anced.		
	ОК Са	ancel	

[Internet Protocol Version 6] IP address : automatically DNS : automatically

3. Serial Port Settings

The preinstalled type's product SERIAL display and OS SERIAL recognition status are shown below.

Product SERIAL display	OS SERIAL recognition	Remarks
SERIAL A	COM1	
SERIAL B	COM2	

Use Device Manager to check the port settings.

Communications Port	(COM1) Properti	es		×
General Port Settings	Driver Details	Events	Resources	
	Bits per second Data bits Parity Stop bits Flow control	8 None		> > > >
	Ad	lvanced	OK	re Defaults

Each port's settings are the same.

ltem	Settings
Bits per second	9600
Data bits	8
Parity	None
Stop bits	1
Flow control	None

4. Optional power settings

This section explains the factory settings for power options.

System Settings - - × ← → ▲ All Control Panel Items > Power Options > System Settings Search Control Panel P Define power buttons and turn on password protection Choose the power settings that you want for your computer. The changes you make to the settings on this page raphy to all your power plane. P Output of your power plane. ● Change settings that are currently unavailable Power and sleep button: Stat down ✓ When I press the sleep buttor: Io mothing ✓ Show in Power menu.	Power and sleep button settings When I press the power button : Shut down Shutdown settings Turn on fast startup(recommended) : Off
Power Options ? X Advanced settings Select the power plan that you want to customize, and then choose settings that reflect how you want your computer to manage power. High performance [Active] ③ Desktop background settings ③ Wireless Adapter Settings ③ Vireless Adapter Settings ③ Intel(R) Graphics Settings ③ Intel(R) Graphics Settings ③ Power buttons and lid PCI Express ③ Link State Power Management Setting: Off ④ Processor power management ⑦ Direnlaw OK Cancel Apply	Advanced settings PCI Express-Link State Power Management Setting : Off

5.Changing the language

The preinstalled type supports English, Japanese, Korean and Simplified Chinese.

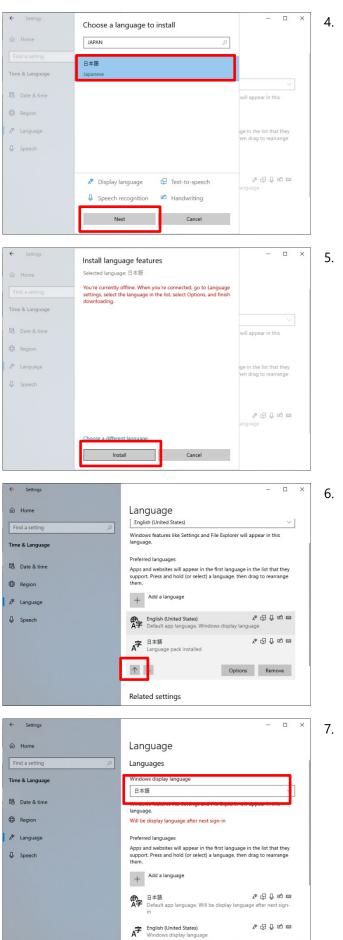
The following explains how to manually change the language settings. As an example we will explain the procedure for switching from English to Japanese.

8		- Wir	ndows PowerShell 🛛 🗸 🗸
ß			indows Security
	ľ	Wi	ndows System 🛛 🗸 🗸
ŝ			
Ф			사람이 있는 것에 있는 것이 같은 것은 사람이 있는 것이 있는 것이 같은 것은 사람이 있는 것이 같은 것이 같이 있다.
	۶	⊃ <u>⊨</u>	
Settings		Find a setti	×
	ш	LL.	iPhone Wi-Fi, airplane mode, VPN
	¥	Personalization Background, lock sc	creen, colors Apps Uninstall, defaults, optional features
	8	Accounts Your accounts, emai work, family	ill, sync, Time & Language Speech, region, date
	8	Gaming Game bar, captures, broadcasting, Game	s, Narrator, magnifier, high contrast
← Settings			- 🗆 X
ය Home			
Find a setting		٩	Language
Time & Language			Windows display language
🕫 Date & time			English (United States) ~ Vindows features like Settings and File Explorer will appear in this
Region			language.
∡ [≇] Language			Preferred languages Apps and websites will appear in the first language in the list that they support. Press and hold (or select) a language, then drag to rearrange
Speech			them.
			+ Add a language English (United States) 우 당 및 전 프 Default app language. Windows display language
			Related settings Date, time, & regional formatting

1. On the [Start] menu, click [Settings].

2. Click [Time & Language].

3. Click [Language], and then select [Add a language].



4. Input "JAPAN" in the textbox, and a list will appear below. Select [日本語 (Japanese)], and then click [Next].

 The language function's installation screen will be displayed, but it is already installed. Click [Install].

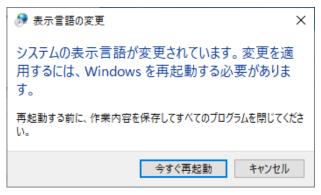
 Japanese is added, so select that item. In order to change the current language from English (United States) to Japanese, click [1].

 The Windows display language will be set to Japanese. Restart Windows. In order to change the display language during startup and shutdown to Japanese, you also need to perform the following settings.

地域)
8式 管理		
FS7Z両面レ	新しいユーザー アカウント	
	新しいユーリー アガラフト 或と言語の設定をようこそ画面、システム アカウント、および新しいユーザ	
	こ表示およびコピーします。	
	♥設定のコピー(○)	
	Sではないプログラムの言語 ステム ロケール) により Unicode 対応ではないプログラムでテキストを表示	
	ステムロケール)により Unicode 対応 ではないフロクラムでテキストを表示 われる言語を制御します。	
Unicode 対	応でないプログラムの現在の言語:	
英語 (米	(国)	
	♥システムロケールの変更(C)	
	OK キャンセル 適用(/	4)
見在のユーザー、	と新しいユーザー アカウントの設定 ようこそ画面、システム アカウント、および新しいユーザー アカウントの設け す(S)	
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8. In Control Panel, click [時計と地域 (Clock and Region)], then click [地域 (Region)]. The [地域 (Region)] properties screen appears. Select the [管理 (Administrative)] tab and click on [設定の コピー(O)… (Copy settings…)].

9. After checking both the [ようこそ画面とシステ ムアカウント (Welcome screen and system accounts)] and [新しいユーザーアカウント (New user accounts)] boxes, click [OK].



10. Confirm the contents, then click [今すぐ再起動 (Restart now)] to restart the system and complete the settings.

6.Windows Update

You can install the correction program (QFE) in [Update & Security].

8		Windows PowerShell	~
D	+	Windows Security	
		Windows System	~
8	1		
ŝ			
Ф			
	Q	μ	

1. On the [Start] menu, click [Settings].



Update & Security Windows Update, recovery, backup 2. Click [Update & Security].

7.CONTEC Manager

1. Overview

CONTEC provides not only functions installed with this product such as the RAS function to secure reliability and the UWF function providing the OS, but also setting tools that allow you to use CONTEC products more smoothly and a library to control the functions listed below.

- Hardware monitor
- Watchdog timer
- Status LED
- General-purpose I/O port
- UWF operations and status monitoring

For detailed instructions, see the help file. The following describes how to consult the help file.

[Start] menu \rightarrow CONTEC Manager \rightarrow Help

CONTEC Manager updates without future notice through the new product's response, improvements, etc. For this reason, the version installed in the preinstalled version may be out of date in some cases. Confirm the latest version online.

Download it from the following URL.

Download https://www.contec.com/ download/

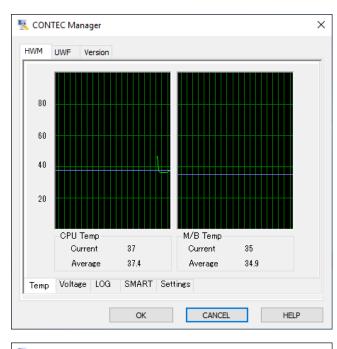
(*) Reliability Availability and Serviceability : Support functions for stable system operations

2. How to start

CONTEC Manager is run from the service application (CoRasSvr.exe) when you sign in to Windows and remains in the task tray. The following icon will appear in the task tray. Move the cursor over the icon and double-click on it to display the properties screen. You can also show the properties screen by pressing <Alt> and <Esc> at the same time.

Task tray icon	Meaning
6	UWF disabled status
6	UWF enabled status
	UWF function disabled status (The hardware monitor, etc., with the exception of the UWF function, can be used)

3. Properties screen



*The following images may differ from the actual product.

Monitor hardware status such as the CPU temperature, the M/B temperature and so on. If it exceeds the set threshold, the set alarm action will be activated.

Alarm actions that can be set : 1.None (Initial settings) 2.Popup Message 3.Reboot 4.Shutdown 5.Designated application

 CONTEC Manager Х HWM UWF Version Filter Status HORM Status Select Protect Volume No Volume ID Letter 0 🗌 14f78f91-327b-4dbe-802a-40e7c90444a0 С Overlay configuration information RAM type 1024 Maximum size(MB) Free space(MB) Warning Threshold(MB) 512 0 Consumption size(MB) 1024 Critical Threshold(MB) 0 Overlay cache monitor and Alarm Action Browse Monitor Start Th 1 500 None \sim 1000 None Th2 \sim Browse Monitor Stop General Settings Exclusion Files Settings Exclusion Registry Settings ОК CANCEL HELP

Change settings such as enabling/disabling UWF. Monitors the usage status of the overlay region when UWF is enabled.

If it exceeds the set threshold, the set alarm action will be activated.

Alarm actions that can be set:

1.None (Initial settings)

2.Popup Message

3.Reboot

4.Shutdown

5.Designated application

lcon	Settings
×	Disabled status
*	Enabled status
0	Unable to set

4. UWF settings

S CONTEC Manager	 Click [🔀] and set to [💜].
HWM UWF Version 1 Filter Status HORM Status No Letter ne ID Image: Description of the status Image: Description of the status No Overlay configuration information Image: Description of the status No Overlay configuration information Image: Description of the status No Overlay configuration information Image: Description of the status No Overlay configuration information Image: Description of the status No Overlay cache monitor and Alarm Action Th1 500 Popup Message Browse Monitor Start Th2 1000 Reboot Browse Monitor Stap General Settings Exclusion Files Settings E Pegistry Settings OK CANCEL HELP	 Click [• •] und set to [• •]. Tick the volume [C] targeted for protection. Designate the alarm action and click the [Monitor Start] button. Click the [OK] button.
UWF × Please select settings operation. [Yes]: Windows restarts to reflect the setting.	 (5) Click the [OK] button. The settings will be enabled once you restart Windows.
[No]: Cancel the setting. (ມານຊັ(N)	

The following explains the method for setting write protection for the C drive.

Power Failure Protection

This product is equipped with "Power Failure Protection" function that prohibits writing onto storage in the event of a power failure. Along with the UWF functions, file system damage caused by sudden power failure can be avoided.

1. About Power Failure Protection

The Power Failure Protection needs to be used along with the UWF function. For this reason, the following tables include enabling the UWF functions. Use them as a reference to check the general flow when using the Power Failure Protection.

1. When the Power Failure Protection is used

1	Factory default	UWF functions: Disabled
		Write Protect functions: Disabled
2	Windows initial setup	Follow the procedure described in [1. Windows setup (page17)] for the initial setup of Windows (the language choice etc.).
		UWF functions: Disabled
		Write Protect functions: Disabled
3	User environment setup	Change the settings of Windows or set up applications.
		UWF functions: Disabled
		Write Protect functions: Disabled
4	Enabling the UWF function	Follow the procedure described in [7. CONTEC Manager (Page39)] and set the UWF.
		UWF functions: Disabled
		Write Protect functions: Disabled
5	Restarting Windows	The UWF function will be enabled once you restart Windows.
		UWF functions: Enabled
		Write Protect functions: Disabled
6	Shutting down Windows	Shut down Windows.
		UWF functions: Enabled
		Write Protect functions: Disabled
7	Enabling the Write Protect	Enable the Write Protect function. *1
	function	WF functions: Enabled
		Write Protect functions: Enabled
8	Starting Windows.	Start Windows operation.
		UWF functions: Enabled
		Write Protect functions: Enabled

2. When the Power Failure Protection is not used

1	Disabling Write Protect function	Disable the Write Protect functions. *1
		UWF functions: Enabled
		Write Protect functions: Disabled
2	Disabling the UWF function	Start Windows and follow the procedure described in [7. CONTEC Manager (Page39)] to set the UWF.
		UWF functions: Enabled
		Write Protect functions: Disabled
3	Restarting Windows	The UWF function will be disabled once you restart Windows.
		UWF functions: Disabled
		Write Protect functions: Disabled

*1 Follow the steps listed below to change the Write Protect function settings of storage.

1	Turn on the power supply of PC, and immediately press [DEL] key or [ESC] key to activate BIOS settings screen (Aptio Setup Utility).						
	Select [Chipset] - [South Bridge] - [SATA Configuration] in that order. Change the "Write Protect" settings.						
	Item Option Description						
	Item	Option	Description				
	Write Protect	Disabled / Enabled	The Hardware Write Protect can be enabled.				

Please check the following points listed in CAUTION beforehand, then, use the Power Failure Protection. For further caution or warning details, see the Reference Manual.

CAUTION

- The following UWF functions will no longer be available once you enable the Write Protect for a drive.
 - Commit function
 - Exclude writing function (file, folder, and registry)
 - Filter setting function for each drive

(Supplemental explanations)

Write Protect function is set on a per-storage basis.

When using one storage for several partitions (for C drive and D drive, etc.),

set the UWF protect for all partitions first, then, enable the Write Protect function.

• To keep the log file information of the drive with Write Protect enabled, change the setting to write the information onto a different storage.

An example)

Disable both Write Protect function and UWF, then, change the settings by following the instruction.

Run "eventvwr.exe" on the command pronto to start the event viewer. Change the log output path from the System property to as listed below:

From [%SystemRoot%\System32\winevt\Logs\System.evtx] to [d:\winevt\Logs\System.evtx]

Recovery Method

This chapter explains how to recover the OS in the event that it is unable to start in the preinstalled type.

1.Preparations

This document describes the recovery procedures in a case where OS becomes unable to start up on a preinstalled-OS system.

The Recovery uses USB connection's DVD-ROM Drive. Please prepare a necessary equipment according to DVD-ROM used.

- The product itself
- Monitor
- USB Keyboard
- USB Mouse
- USB DVD-ROM Drive
- Provided Recovery Media (You require recovery media, contact your retailer.)

Please check the following points and connect the device.

- Before using a recovery media, be sure to read the license agreements (END USER LICENSE AGREEMENT about respective OS and Easy Restore license agreement). You can use this recovery media only if you agree to the license descriptions.
- Use of the recovery media is allowed only for the purpose of restoring preinstalled OS. Using the media for other purposes than OS recovery is prohibited.
- The content of the silicon disk returns to the state when our company is shipped by restoring it by recovery media. Take the backup in important data beforehand.
- Remove the connected disks if that are not composed in the pre-installed type from the body.
- Remove the USB storage device if it is connected to the body.

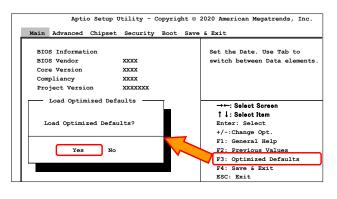
2.Procedure

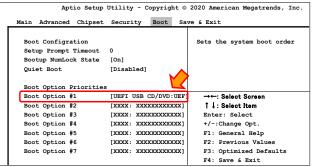
Before performing the operation, connect the monitor, the USB keyboard, USB mouse and USB DVD-ROM drive to the product.

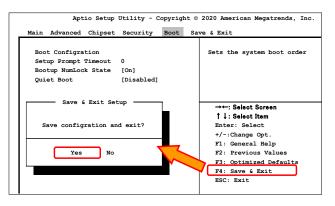
1. BIOS settings

Please set recovery media (Disc 1 of 2) to a USB DVD-ROM drive, and connect with PC.

Turn on the power supply of PC and Press [DEL] key or [ESC] key immediately after turning on the power, activating Aptio Setup Utility. Recovery Procedures.







1. Press [F3] key, select [Load Optimized Defaults]. Please select [Yes] and press [ENTER] key.

 Press [→] key, select [Boot] menu.
 Please assign a UEFI DVD drive to "Boot Option #1"

> Boot Option Priorities [Boot Option #1] [UEFI USB CD/DVD:UEF...]

 Press [F4] key, and select [Save & Exit Setup]. Please select [Yes] and press [ENTER] key. The system will automatically reboot. The USB DVD-ROM Drive will run UEFI boot. Go to "2. OS installation".

2. OS installation

The USB DVD-ROM Drive will run UEFI boot, and after a short while Windows PE will start up.

- [!!! WARNING !!!] Initialize Storage. Are you Sure? [Y/N]
- CImage Tool for Windows Copyright<C> 2020 CONTEC CO., LTD. Version X.X.X.X

Copy swm file: xxxxx.swm [xx%] copied

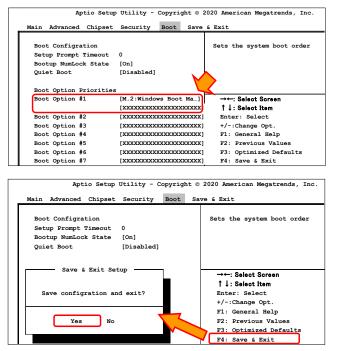
CImage Tool for Windows Copyright<C> 2020 CONTEC CO., LTD. Version X.X.X.X

Copy swm file: xxxx.swm [100%] Copied Please Insert next disc [2/2] and press '[Enter]' key.

- When you receive the confirmation message, please press [Y] key and [ENTER] key. (If you do not continue the recovery, press N key.)
- 2. HDD/SSD initialization and recovery processing will be performed automatically.
- 3. The screen on the left will appear. Take out the recovery media (Disc 1 of 2) and insert the recovery media (Disc 2 of 2), then press [Enter].
- The left DOS prompt appears, Remove the recovery media (Disc 1 of 2). Insert the following recovery media (Disc2 of 2). Press [Enter] key. Recovery is performed automatically.

3. BIOS settings

After restarting the system by the method outlined above, immediately press [DEL] or [ESC] to start the BIOS settings screen (Aptio Setup Utility).



- Press [→] key, select [Boot] menu. Please check if the "Boot Option #1" in Boot Option Priorities is assigned to [M.2: Windows Boot Ma...]. If not, assign it appropriately.
- Press [F4] key, select [Save & Exit Setup].
 Please select [Yes] and press [ENTER] key The system will automatically reboot.

4. Start OS

The screen of the left figure is displayed after several times reboot.

Welcome		
Со	ntinue in selected languag	ge?
	English (United States)	
	日本語	
	한국어	
	中文(简体)	
ው		

Perform Windows setup following the setup procedure in this manual.

Customer Support and Inquiry

CONTEC provides the following support services for you to use CONTEC products more efficiently and comfortably.

1.Services

CONTEC offers the useful information including product manuals that can be downloaded through the CONTEC website.

Download

https://www.contec.com/download/

You can download updated driver software, firmware, and differential manuals in several languages. Membership registration (myCONTEC) is required to use the services.

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Revision History

MONTH YEAR	Summary of Changes
October 2021	The First Edition
September 2022	Changes due to reduction of bundled products.

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