

Stratum™ X5

Safety and Regulatory Guide

Products Covered

Stratum™ X5

-SX5-1040A

-SX5-1042A

-SX5-1040A Quickbridge

-SX5-1042A Quickbridge



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Stratum™ X5 - Safety and Regulatory Guide

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Preface

About this Guide

This document contains the safety and regulatory compliance information for the following Stratum™ products:

- **Stratum™ X5 Series**
 - SX5-1040A
 - SX5-1042A

Related Documents

In addition to this guide, please refer to the following documents for *Stratum™ X5* products that are available at Proxim's support site <http://support.proxim.com>.

- **Quick Installation Guide (QIG):** A quick reference guide that provides essential information for installing and configuring the device.
- **Device Management Guide** - A guide that gives an overview of the device user interface and explains the step-by-step procedure to configure, manage and monitor the device by using Graphical User Interface.
- **Software Configuration Guide:** A guide that provides software configuration information for Proxim devices.
- **Hardware Installation Guide:** A guide that provides a hardware overview and details about the installation procedures and hardware specifications.
- **CLI Guide** - A guide that gives instructions on how to configure, manage and monitor the device using Command Line Interface.

Proxim recommends you to visit its support site <http://support.proxim.com> for regulatory information and latest product updates.

Stratum™ Series - Regulatory Information

This chapter contains information on the following:

- [Safety Information \(USA, Canada and European Union and UK\)](#)
- [Federal Communications Commission \(FCC\) Compliance](#)
- [Industry Canada Compliance](#)
- [Certification Summary](#)

1.1 Safety Information (USA, Canada and European Union and UK)

Listed below are the product(s) and their corresponding safety standards that they comply with:

Product(s)	Standards
SX5-1040A	IEC 62368-1:2018
SX5-1042A	UL 62368-1:2019
	CSA C22.2 No. 62368-1:19
	EN IEC 62368-1:2020+A11:2020
	BS EN IEC 62368-1:2020+A11:2020

All products are intended to be installed, used, and maintained by experienced telecommunications personnel only.

When using these products, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons, including the following:

- Devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation.
- Installation of these products in the end use must conform to local regulations and codes.
- Devices are to be used with and powered only by the Power Injector provided.
- A 16-amp circuit breaker is required at the power source.
- The devices are intended to be grounded. Use a 12 AWG earthing conductor at a minimum.
- Do not connect or disconnect the power cable from the device when the power injector is plugged into an AC power outlet.
- Devices should be serviced by trained personnel only. Do not disassemble the device. By opening or removing any covers, you may expose yourself to hazardous energy parts. Incorrect reassembly of these devices can cause malfunction and/or electric shock when later used. There are no user serviceable parts; all repairs and services must be handled by a qualified service center.
- Do not insert any objects of any shape or size inside these devices while powered on. Object may contact hazardous energy parts that could result in a risk of fire or personal injury.
- Do not remove or alter the marking label provided on these devices.
- To avoid the risk of electric shock from lightning, do not use these devices during an electrical storm.
- RJ-45 maximum available current is 1.33A.

WARNING: *These devices are intended for installation in accordance with Articles 110-18, 110-26, and 110-27, 725, 800, and 810 of the United States National Electric Code ANSINFP 70, and per the applicable Articles in the Canadian National Electric Code.*

1.2 Federal Communications Commission (FCC) Compliance

The Stratum™ devices have been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING:

- *To comply with FCC part 15 rules in the United States, the system must be professionally installed to ensure compliance with the Part 15 certification. It is the responsibility of the operator and professional installer to ensure that only certified systems are deployed in the United States. The use of the system in any other combination (such as co-located antennas transmitting the same information) is expressly forbidden.*

The device operation is subject to the following two conditions:

1. The device may not cause harmful interference
2. The device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operate in conjunction with any other antenna or transmitter.

The FCC radio-frequency exposure guidelines for an uncontrolled environment can be satisfied.

1.2.1 Modifications

The FCC requires the user to be notified that any changes or modifications to this device that are not expressly approved by the manufacturer may void the user's authority to operate the device. The correction of interference caused by unauthorized modification, substitution or attachment will be the responsibility of the user. The manufacturer and its authorized resellers or distributors are not liable for any damage or violation of government regulations that may arise from failing to comply with these guidelines.

WARNING:

- *Modification of this device to receive cellular Radio Telephone service signals is prohibited under FCC Rules and Federal Law.*
- *Modifications not expressly approved by the manufacturer could void the user authority to operate the equipment under FCC Rules.*

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1.2.2 FCC Radiation Exposure Statement

The Stratum™ devices comply with FCC radiation exposure limits set forth for an uncontrolled environment.

Tabulated below are the products and the FCC radiation exposure limits followed by the devices:

Product(s)	Standards
SX5-1040A SX5-1042A	<ul style="list-style-type: none">Product models using external antennas require professional installation. The antennas used for professional installation must be fixed-mounted on outdoor permanent structures with a minimum separation distance from the antenna to the users for antennas according to the below table:Antennas must not be co-located and must not operate in conjunction with any other antenna or transmitter.

Antenna Model	Frequency (MHz)	Minimum Separation Distance (CM)
TM55D-HVOMNI-12	5150 to 5250	33
	5725 to 5850	37
TM55D-HVSCTR-21	5150 to 5250	47
	5725 to 5850	59
MT-466010/NVH	5150 to 5250	83
	5725 to 5850	131
TM55L-DPDISH	5150 to 5250	66
	5725 to 5850	292
MA-WA57-QP4MIMO19	5150 to 5250	52
	5725 to 5850	59
PCB Antenna	2402 to 2480	1

1.2.3 Installation within TDWR Range

Before mounting and installing the device, please check the distance between the device location and the near by Terminal Doppler Weather Radar (TDWR). You can find the locations of the airport weather radars from the Wireless Internet Service Providers Association (WISPA) database at <http://spectrumbridge.com/udrs/home.aspx>. If the distance from the device to any TDWR is less than 35 kms, then the radio is not allowed to operate in channels closer than 30 MHz relative to the TDWR frequency (above and below). To protect these TDWR, the channels up to 30 MHz must be blacklisted so they cannot be selected as operational channel. In addition to blacklisting of the channels, register the location of the device radio in the WISPA database, so that any interference caused by the operation of the radio can be addressed in compliance with the Part 15 requirements.

For example: Consider the TDWR location at Phoenix, AZ operating at 5610 MHz (N 33 25 14; W 112 09 46). If the device is installed within 35 kms radial distance from this location then avoid operating in (5580 - 5640) MHz band. Also, blacklist all channels overlapping the 5580 - 5600 MHz band (5600 - 5650) is already removed from operation list of our device).

1.3 Industry Canada Compliance

The Stratum devices comply with Canadian ICES-003 and license-exempt RSS standard(s).

The device operation is subject to the following conditions:

- This device may not cause interference

Regulatory Information

- This device must accept any interference, including interference that may cause undesired operation of the device

WARNING:

- **High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.**

NOTES:

- This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.
- Under Industry Canada regulations, the radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
- The devices are designed to operate with disabled operation between 5600-5650 MHz within the 5470-5725 MHz band.
- The device automatically discontinues transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes which is required by the technology.
- Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate these devices.
- This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain. Antenna types not included in this list, and having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Conformité Industry Canada

Les appareils Stratum sont conformes aux normes canadiennes ICES-003 et RSS sans licence. Le fonctionnement de l'appareil est soumis aux conditions suivantes:

- Cet appareil ne doit pas provoquer d'interférences.
- Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent provoquer un fonctionnement indésirable de l'appareil.

ATTENTION:

- **Les radars haute puissance sont attribués en tant qu'utilisateurs principaux (c'est-à-dire utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz. Ces radars pourraient provoquer des interférences et / ou endommager les appareils LE-LAN.**

REMARQUES:

- Cet appareil et son (ses) antenne(s) ne doivent pas être co-localisés ou utilisés avec une autre antenne ou un autre émetteur.
- En vertu de la réglementation d'Industrie Canada, l'émetteur radio ne peut fonctionner qu'avec une antenne d'un type et d'un gain maximum (ou moindre) approuvés pour l'émetteur par Industrie Canada. Pour réduire les interférences radio potentielles pour les autres utilisateurs, le type d'antenne et son gain doivent être choisis de telle sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure à celle nécessaire pour une communication réussie.
- L'appareil est désactivé entre 5600-5650 MHz dans la bande 5470-5725 MHz.
- L'appareil interrompt automatiquement la transmission en cas d'absence d'informations à transmettre ou de panne de fonctionnement. Notez que cela ne vise pas à interdire la transmission d'informations de commande ou de signalisation ou l'utilisation de codes répétitifs requis par la technologie.
- Tout changement ou modification non expressément approuvé par le fabricant peut annuler le droit de l'utilisateur à utiliser cet appareil.

Regulatory Information

- Cet émetteur radio a été approuvé par Industrie Canada pour fonctionner avec les types d'antennes énumérés ci-dessous avec le gain maximum autorisé. Les types d'antennes non inclus dans cette liste, et ayant un gain supérieur au gain maximum indiqué pour ce type, sont strictement interdits d'utilisation avec cet appareil.

Frequency Band	Antenna Type	Maximum Gain (dBi)
(5.725 - 5.850) GHz	Panel	28
	Omni Directional	12
	Sector	21
	Parabolic Dish	35
	Panel (Integrated)	19
(2.402 - 2.480)GHz	PCB	2

1.3.1 IC Radiation Exposure Statement

This device complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. The device should be installed and operated with a minimum distance between the antenna and the user according to the below table. Under such configuration, the IC RSS-102 radiation exposure limits set forth for an population/uncontrolled environment can be satisfied.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements IC RSS-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de distance entre la source de rayonnement et votre corps conformément au tableau ci-dessous. Dans ces conditions, les limites d'exposition aux rayonnements IC RSS-102 établies pour un environnement non contrôlé peuvent être satisfaites.

Antenna Model	Frequency (MHz)	Minimum Separation Distance (CM)
TM55D-HVOMNI-12	5725 to 5850	33
TM55D-HVSCTR-21	5725 to 5850	51
MT-466010/NVH	5725 to 5850	114
TM55L-DPDISH	5725 to 5850	255
MA-WA57-QP4MIMO19	5725 to 5850	51
PCB Antenna	2402 to 2480	1

1.4 European (ETSI) and UK Compliance

The Stratum devices comply with the Low Voltage Directive (LVD) (2014/35/EU) and Radio Equipment Directive (2014/53/EU). Compliance with these directives implies conformity to harmonized European standards (European Norms).

1.4.1 Countries of Operation and Conditions of Use

The devices may be used in the following EU and EFTA countries: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden and the United Kingdom.

The professional installer must use the configuration utility provided with the device to ensure that EIRP and the channels of operation are in conformance with the spectrum usage rules for EU and EFTA countries as described below.

1.4.2 5GHz Operation

The installer must use the configuration utility provided with the device to ensure the channels of operation are in conformance with the spectrum usage rules.

The device employs a radar detection feature required for European Community and EFTA country operation in the 5 GHz band. This feature is automatically enabled when the country of operation is correctly configured for any European Community or EFTA country. The presence of nearby radar operation may result in temporary interruption of operation of this device. The radar detection feature will automatically restart operation on a channel free of radar.

1.4.3 Transmit Power Control (TPC) for 5 GHz operation

It is recommended not to disable ATPC on the device. However, if you wish to manually set TPC level, use professional installer services to ensure TPC level is set properly and complies with European regulatory requirements.

NOTE:

The TPC procedure should be repeated when relocating the wireless device within the current wireless network or to a wireless network in a new location.

1.5 Certification Summary

1.5.1 USA (See USA - Certification)

Models	Frequency Band	Certification/Reference Number
SX5-1040A -US SX5-1042A -US	(5.150 - 5.250)GHz (5.725 - 5.850)GHz (2.402 - 2.480)GHz for BLE	FCC ID: HZB-GIGA5

1.5.2 Canada (See CANADA - Certification)

Models	Frequency Band	Certification/Reference Number
SX5-1040A -WD SX5-1042A -WD	(5.725 - 5.850)GHz (2.402 - 2.480)GHz for BLE	IC:1856A-GIGA5

1.5.3 ETSI (See ETSI - Certification)

Models	Certification/Reference Number
SX5-1040A SX5-1042A	CE

1.5.4 UK (See UK - Certification)

Models	Certification/Reference Number
SX5-1040A SX5-1042A	UKCA

1.5.5 CB (See CB - Test Certificate)

Models	Certification/Reference Number
SX5-1040A SX5-1042A	JPTUV-151216

Information for Professional Installer

2

This chapter contains information on the following:

- Information for Professional Installers
 - Adjusting Tx Output Power
 - Antenna Gain Configuration

2.1 Information for Professional Installers

All products must be professionally installed, and the transmit power of the system must be adjusted by the professional installers to ensure that the system EIRP is in compliance with the limit specified by the regulatory authority of the country of application.

2.1.1 Adjusting Tx Output Power

NOTE: When the system is set to transmit at the maximum power, professional installers must ensure that the maximum EIRP limit is not exceeded. To achieve this, they may have to add attenuation between the device and the antenna when a high gain antenna is used.

Use the following formula in combination with the table of EIRP limits in US and EU countries to calculate system transmit power (based on EIRP limits) of these countries:

$$\text{Tx Power (dBm)} = \text{EIRP Limit (dBm)} + \text{FL (dB)} - \text{G (dB)}$$

where,

Tx Power = Output power measured at the antenna input

EIRP Limit = EIRP limits specified below

FL = Feeder loss including loss of connectors

G = Antenna Gain

Transmit output power can be reduced by using **Automatic Transmit Power Control (ATPC)**, or manually setting the **Transmit Power Control (TPC)**. For information to automatically or manually set TPC, refer to **Software Management Guide** available at <http://support.proxim.com>.

Regulatory Domain	Frequency (MHz)	Max EIRP (dBm)	
		PTP Mode (QB)	PTMP Mode (MP)
US SKU			
United States 5GHz	5150 ~ 5250 (Non-DFS)	30	30
	5725 ~ 5850 (Non-DFS)		
United States 5.8GHz	5725 ~ 5850 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
United States3 (5.2, 5.8 GHz)	5150 ~ 5250 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
	5725 ~ 5850 (Non-DFS)		

WD SKU			
World 5 GHz	5150 ~ 5925 (Non-DFS)	100	100
United States 5GHz	5150 ~ 5250 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
	5725 ~ 5850 (Non-DFS)		
United States 5.8GHz	5725 ~ 5850 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
United States3 (5.2, 5.8 GHz)	5150 ~ 5250 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
	5725 ~ 5850 (Non-DFS)		
Canada 5 GHz	5150 - 5.250 (Non-DFS)	23 (Indoor)	23 (Indoor)
	5725 - 5.850 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
Europe 5.4 GHz	5470 ~ 5600 (DFS)	30	30
	5650 ~ 5725 (DFS)		
Europe 5.8 GHz	5725 ~ 5875 (DFS)	36	36
UK 5.8 GHz	5725~5795	36	36
	5815~5850		

IMPORTANT! You must add external attenuation pad if the calculated EIRP is over the limit. If you are at the TPC limit, reduce the power and continue with the attenuation.

2.1.2 Antenna Gain Configuration

When using external antenna, the professional installer should ensure to configure proper antenna gain so that the radio does not exceed the EIRP allowed per regulatory domain.



Calculate the antenna gain as follows:

Antenna Gain to be configured = Antenna Gain of the antenna used - Cable Loss

Example: Consider an example where the device is operating in United States 5.3 GHz with the EIRP 30 dBm. The antenna gain of the antenna used is 23 dBi and the cable loss is 1dB.

Given this case, Configurable Antenna Gain = $[23 \text{ dBi} - 1 \text{ dB}] = 22 \text{ dBi}$

$$\text{Maximum Radio Power} = \text{EIRP} - \text{Configured Antenna Gain}$$

$$= 30 \text{ dBm} - 22 \text{ dBi}$$

$$= 8 \text{ dBm}$$

With this configuration, the ATPC feature will limit the radio power to a maximum of 8 dBm to avoid exceeding EIRP limit of 30 dBm.

USA - Certification



Given below are the USA certification details for the following products:

- SX5-1040A -US
- SX5-1042A -US

CANADA - Certification

B

Given below are the USA certification details for the following products:

- SX5-1040A -WD
- SX5-1042A -WD

ETSI - Certification

Given below are the products with the ETSI Certification:

- SX5-1040A
- SX5-1042A

UK - Certification

Given below are the products with the authorization to use UL Mark:


- SX5-1040A
- SX5-1042A







CB - Test Certificate



Given below is the CB Test certification for the following products:

- SX5-1040A
- SX5-1042A

	<table border="1"> <tr> <td>Ref. Certif. No.</td> </tr> <tr> <td>JPTUV-151216</td> </tr> </table>	Ref. Certif. No.	JPTUV-151216
Ref. Certif. No.			
JPTUV-151216			

<p>IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME</p>																									
<table border="1"> <tr> <td data-bbox="256 583 657 619">CB TEST CERTIFICATE</td> <td data-bbox="657 583 1339 619"></td> </tr> <tr> <td data-bbox="256 661 657 682">Product</td> <td data-bbox="657 661 1339 682">Stratum X5 (Wireless Ethernet Devices)</td> </tr> <tr> <td data-bbox="256 720 657 741">Name and address of the applicant</td> <td data-bbox="657 720 1339 762">Proxim Wireless Corporation 2114 Ringwood Avenue, San Jose, CA 95131, USA</td> </tr> <tr> <td data-bbox="256 804 657 825">Name and address of the manufacturer</td> <td data-bbox="657 804 1339 846">Proxim Wireless Corporation 2114 Ringwood Avenue, San Jose, CA 95131, USA</td> </tr> <tr> <td data-bbox="256 888 657 909">Name and address of the factory</td> <td data-bbox="657 888 1339 930">Proxim Wireless Corporation 2114 Ringwood Avenue, San Jose, CA 95131, USA</td> </tr> <tr> <td data-bbox="256 993 657 1014">Ratings and principal characteristics</td> <td data-bbox="657 993 1339 1056">Input: 56Vdc 1.1A - via Ethernet Port OR 12Vdc 3.0A - via Access Port Output: 56Vdc 30W Max. (Optional) (Only when 56V dc input provided); Class III</td> </tr> <tr> <td data-bbox="256 1087 657 1108">Trademark (if any)</td> <td data-bbox="657 1087 1339 1108">Stratum™</td> </tr> <tr> <td data-bbox="256 1140 657 1161">Customer's Testing Facility (CTF) Stage used</td> <td data-bbox="657 1140 1339 1161">N/A</td> </tr> <tr> <td data-bbox="256 1176 657 1197">Model / Type Ref.</td> <td data-bbox="657 1176 1339 1207">SX5-UUVWY-ZZ (UU=10 or 20, V=2 or 4, W=0-9, Y=A or B or C, ZZ can be 2 alphabets)</td> </tr> <tr> <td data-bbox="256 1281 657 1323">Additional information (if necessary may also be reported on page 2)</td> <td data-bbox="657 1281 1339 1302">For model differences, refer to the test report.</td> </tr> <tr> <td data-bbox="256 1396 657 1438">A sample of the product was tested and found to be in conformity with</td> <td data-bbox="657 1396 1339 1428">IEC 62368-1:2018 See Test Report for National Differences</td> </tr> <tr> <td data-bbox="256 1522 657 1564">As shown in the Test Report Ref. No. which forms part of this Certificate</td> <td data-bbox="657 1522 1339 1554">IN23ZC03 001</td> </tr> </table>		CB TEST CERTIFICATE		Product	Stratum X5 (Wireless Ethernet Devices)	Name and address of the applicant	Proxim Wireless Corporation 2114 Ringwood Avenue, San Jose, CA 95131, USA	Name and address of the manufacturer	Proxim Wireless Corporation 2114 Ringwood Avenue, San Jose, CA 95131, USA	Name and address of the factory	Proxim Wireless Corporation 2114 Ringwood Avenue, San Jose, CA 95131, USA	Ratings and principal characteristics	Input: 56Vdc 1.1A - via Ethernet Port OR 12Vdc 3.0A - via Access Port Output: 56Vdc 30W Max. (Optional) (Only when 56V dc input provided); Class III	Trademark (if any)	Stratum™	Customer's Testing Facility (CTF) Stage used	N/A	Model / Type Ref.	SX5-UUVWY-ZZ (UU=10 or 20, V=2 or 4, W=0-9, Y=A or B or C, ZZ can be 2 alphabets)	Additional information (if necessary may also be reported on page 2)	For model differences, refer to the test report.	A sample of the product was tested and found to be in conformity with	IEC 62368-1:2018 See Test Report for National Differences	As shown in the Test Report Ref. No. which forms part of this Certificate	IN23ZC03 001
CB TEST CERTIFICATE																									
Product	Stratum X5 (Wireless Ethernet Devices)																								
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Customer's Testing Facility (CTF) Stage used	N/A																								
Model / Type Ref.	SX5-UUVWY-ZZ (UU=10 or 20, V=2 or 4, W=0-9, Y=A or B or C, ZZ can be 2 alphabets)																								
Additional information (if necessary may also be reported on page 2)	For model differences, refer to the test report.																								
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2018 See Test Report for National Differences																								
As shown in the Test Report Ref. No. which forms part of this Certificate	IN23ZC03 001																								
<p>This CB Test Certificate is issued by the National Certification Body</p>																									
<table border="1"> <tr> <td data-bbox="256 1717 657 1906">  TÜVRheinland® Date: 2023-09-01 </td> <td data-bbox="657 1717 1339 1906"> TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan Phone + 81 45 914-3888 Fax + 81 45 914-3354 Mail: info@jpn.tuv.com Web : www.tuv.com Signature:  Paddy Qiu </td> </tr> </table>		 TÜVRheinland® Date: 2023-09-01	TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan Phone + 81 45 914-3888 Fax + 81 45 914-3354 Mail: info@jpn.tuv.com Web : www.tuv.com Signature:  Paddy Qiu																						
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