



Wireless Card for VCM and VMM /164-R9570

VxM RF Card User Safety Guide

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR compliance has been established in typical laptop computer(s) with CardBus slot, and product could be used in typical laptop computer with CardBus slot. Other application like handheld PC or similar device has not been verified and may not compliance with related RF exposure rule and such use shall be prohibited.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Industry Canada Statement

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- 1) This device may not cause interference and
- 2) This device must accept any interference, including interference that may cause undesired operation of the device

This device has been designed to operate with an antenna having a maximum gain of 2 dBi. Antenna having a higher gain are strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with IC RF exposure compliance requirements, please follow operating instructions as documented in this manual.

1. **Product Safety Information**

How to identify safety notices

There are five types of safety information. These are examples:



CAUTION - This indicates the presence of a hazard that can cause damage to , a vehicle or other equipment connected to, or that might corrupt software if the hazard is not avoided.



WARNING - This indicates the presence of a hazard that can cause personal injury if the hazard is not avoided.



SPECIFIC HAZARD - Indicates the presence of a specific hazard, such as static sensitive components, electric shock risk or hot surface.



DO - Indicates a safety-critical activity that must be carried out.



DO NOT - Indicates a safety-critical activity or action that must not be carried out under any circumstances.

IMPORTANT SAFETY INSTRUCTIONS

All users of this product must read and understand all safety notices.

This product has been designed, manufactured and tested to meet the requirements of international standards. However, as with any apparatus, care **must** be taken in its installation and use.

This document provides important safety related information relating to the **TERADYNE VxM RF Card** product.

You should read and understand this safety information before installing, and using the equipment

ALWAYS observe the safety warnings and instructions in this document.



CAUTION - This wireless LAN Card must only be installed in Teradyne equipment by trained personnel.



CAUTION – There are NO user serviceable parts contained within or associated with this wireless card. The card **MUST be returned to the manufacturer for any service requirements.**



CAUTION – Using this card in a manner not specified by the manufacturer may impair the protection provided by this equipment.



WARNING – To reduce the risk of fire, do not operate this card within equipment near open containers of flammable liquid (such as gasoline). Do not allow the product to operate below or within 400mm (18 inches) of garage floor level.



WARNING – Do not use on wet surfaces or expose to rain.



WARNING – Changes or modifications to this product not expressly approved by Teradyne may void authority to operate equipment where the card has been installed.



WARNING – This RF product must be operated with the radiator at least 20cm away from the body.



WARNING – Do not insert the Teradyne RF card into any device until instructed to do so by the Wireless Configuration Wizard. The Teradyne RF card is for use with the VCM or VMM only.



WARNING – When using the Teradyne RF card, a strong signal is required in order to avoid interruptions in diagnostic procedures such as Module Reprogramming. To verify the signal strength run the Wireless Connections Manager (select “Start > Programs > Teradyne DS”).



DO NOT - Remove any fixed covers to install this card unless you are authorised or qualified to do so..



DO NOT - Expose this card to spilled liquids.



DO NOT - Use the card outside the supplier specification supplied by Teradyne.



DO NOT - Immerse card in water.



DO - Use the card only as described in this manual.



DO - Use this card in accordance with the operating procedures. For further details on installing and operating this card or any details relating to using it, contact Teradyne.

SAVE THESE INSTRUCTIONS.

2. **Intended Use of Equipment**

This Radio card is intended for use in vehicle diagnostic equipment within a vehicle assembly, test, service or repair environment.

The TERADYNE VxM RF Card when installed within vehicle diagnostic equipment provides the capability for wireless communication between the diagnostic equipment and host systems.

3. **Technical Specification**

VxM RF Card

Operating Voltage	5 Volts DC +/- 5%
Maximum Current	500 mAmps

Physical

Physical dimensions	Width = 54, Length = 111, Depth = 7 (mm, Approx)
Environmental Specification	Temperature -20°C to 50°C Humidity 0% to 90%

Wireless LAN(WLAN) environmental connections

WLAN Interface	Conforms to IEEE 802.11b/g
WLAN Transfer Rate	802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps with Dynamic fallback. 802.11b: 1,2,5.5,11Mbps with Dynamic fallback.
WLAN Frequency Band	2.4G~2.4735GHz (ISM Band)
Operational Channels	Channel 1~11 (For all countries)
Security Modes	AES – Advanced Encryption Standard, Counter Mode CBC-MAC Protocol (CCMP), Wi-Fi Protected Access (WPA), Wired Equivalency Protocol (WEP), With Temporal Key Integrity Protocol (TKIP)
Antenna	Dual Ceramic Chip Antenna
LED Function	DS2 Green LED (nearest centre of card) – Flashes for scanning / associating, on when associated.

DS1 Amber LED (nearest card edge) – Software configured, not currently used.

4. ***Instructions for Use***

Follow these basics steps to start using your VCM or VMM (or both) wirelessly with IDS.



Step 1 Ensure your IDS computer is connected to a wireless network.



Step 2 Install software from the included CD-ROM.



Step 3 Connect your VCM **OR** VMM **OR** both to the computer and power.



Step 4 Start the Wireless Configuration Wizard and follow the instructions.



Step 5 Start IDS and begin using your device wirelessly.

Note:- The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

5. ***Manufacturer Contact Information***

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Stockport
Cheshire
SK3 0XG
United Kingdom

Phone : ++44 (0)161 491 9191

www.teradyne-ds.com

6. ***Equipment installation***


1. Unscrew and remove the RF Card cover from the diagnostic tool
2. Insert the card fully home into the connector
3. Replace the cover and screw down

7. ***Maintenance***

There are **NO** user serviceable parts contained within or associated with this product. The card should be removed and returned to the manufacturer for all service requirements.

8. **Warning symbols**

This device complies with Part 15 of the FCC Rules, Operation is subject to the following two conditions; (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

	<p>This warning relates to the correct disposal methods for this type of equipment as per the WEEE directive.</p> <p>Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC and 2003/108/EC.</p>
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