



Digi TransPort® WR21 Hazardous Locations User Guide

User Guide

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| Revision | Date | Description |
|----------|---------------|---|
| A | December 2015 | First release. |
| B | June 2017 | Added warning that antennas for use in Class I, Division 2 Hazardous Locations must be installed within the end use enclosure. Updated Power Input specification to add minimum wattage. Reordered hardware specification categories. Updated mobile certifications to note Radio Equipment Directive. Updated Emissions/Immunity certification to EN55032. |

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Digi TransPort WR21 Hazardous Locations information


This guide provides information on installing and using Digi TransPort WR21 in hazardous locations, including compliance statements and certifications. For more hardware information for the Digi TransPort WR21, see the **Hardware** section of the [Digi TransPort WR Routers User Guide](#).


Class I Division 2, Groups A,B,C,D Hazardous Location statement


 **WARNING!** The Digi TransPort WR21 is suitable for use in Class I, Division 2, Groups A, B, C, D, T4 or non-hazardous locations only.
These devices are open-type devices that are to be installed in a tool only accessible enclosure suitable for the environment.


 **WARNING!** Explosion Hazard: Do not connect or disconnect equipment when energized.
Avertissement: Risque d'explosion. Ne pas brancher ni débrancher sous tension.

 **WARNING!** Explosion Hazard: Substitution of components may impair suitability for Class I, Division 2.
Avertissement: Risque d'Explosion - La substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Classe I, Division 2.


 **WARNING!** The area must be known to be non-hazardous before servicing/replacing the unit and before installing.
Avertissement: La zone doit être connue pour être non dangereuse avant l'entretien / remplacement de l'unité et avant l'installation.

 **WARNING!** Explosion Hazard: Do not replace power supply unless power has been switched off or the area is known to be non-hazardous.
Avertissement: Risque d'Explosion - Ne remplace power supply pas d'alimentation électrique à moins que le pouvoir n'ait été éteint ou on connu que la région soit non-hazarduse.

 **WARNING!** The USB port is for use in ordinary locations. It is not for use in a hazardous location environment.

 **WARNING!** Antennas intended for use in Class I, Division 2 Hazardous Locations must be installed within the end use enclosure. For remote mounting in an unclassified location, routing and installation of the antennas shall be in accordance with the National Electrical Codes requirements.

Restriction on use of USB port

 **WARNING!** The USB port is for use in a normal location only, not a hazardous location.

Digi TransPort WR21 hardware specifications

| Category | Specification | Value |
|--------------------|---|--|
| General features | Dimensions (L x W x H) | 3.9" x 5.2" x 1.3" (10 cm x 13.1 cm x 3.2 cm) |
| | Weight | 0.85 lbs. |
| | Other | Standard dual SIM (SIM protection cover option) |
| RF features | | |
| GSM models | GPRS | GPRS Class 10 Quad band 850/900/1800/1900 MHz |
| | EDGE | GPRS Class 10/EDGE Class 10 Quad band 850/900/1800/1900 MHz |
| | HSDPA/HSUPA/UMTS | 850/900/1900/2100 MHz with Rx Diversity |
| CDMA models | CDMA/EV-DO Rev A | Dual band 800/1900 MHz with Rx Diversity Optional multi-mode GSM/ EV-DO Gobi support 450 MHz, 3.1 Mbps down / 1.8 Mbps up R-UIM support |
| Power requirements | Power input | 9-30 VDC; 18 W minimum |
| | Power supply | 100-240 VAC 50/60 Hz with barrel connector Optional barrel connector with bare wire leads |
| | Power consumption | 6 W @ 12 VDC |
| Environmental | Operating temperature (ambient temperature) | -20° C to +55° C; -35° C to +75° C with reduced cellular performance |
| | Relative humidity | 20% to 95% (non-condensing) |
| | Ethernet isolation | 1.5 kV |
| | Serial port protection (ESD) | 1.5 kV |

| Category | Specification | Value |
|-----------|--------------------------------------|---|
| Approvals | Emissions/Immunity | CE FCC Part 15 Class B AS/NZS CISPR 22 EN55032 Class B EN55024 |
| | Safety | Hazardous Locations: ANSI/ISA-12.12.01-2015 CAN/CSA C22.2 NO.213-15 Ordinary Locations: UL 60950-1, 2nd Edition, 2014-10-14 |
| | Mobile Certifications-GSM/UMTS | RE Directive (Radio Equipment Directive) EN 301 511 |
| | Mobile Certifications-CDMA/ EV-DO | CDG TIA/EIA-690 CDG TIA/EIA-98-E |
| | Wireless Carrier Certifications | Certified by most major carriers. See www.digi.com for current listing. |