

Quick Installation Guide

Introduction

Designed for industrial and rolling stock wireless applications with two LAN ports in M12 connectors and EN50155 compliance, the TGAR-1062/2062/1662+ series are IEEE802.11 a/b/g/n routers capable of providing a fast and effective way to communicate with the Internet over wired or wireless LANs. The series includes PoE models and 3G/4G models with GPS functions. The series of devices can be configured to operate in 3 modes of routing function: dynamic/static IP route. PPPoE authentication. and cellular modem dial up. You can set up WLAN environment to fulfill demands of various applications rapidly by dialing up cellular modem. With dual Ethernet ports in switch mode, you can use Daisy Chain to reduce the usage of Ethernet switch ports. The router also provides VPN capabilities which create encrypted virtual tunnels on the Internet, allowing remote or mobile users to connect to the network of your office.

Package Contents

The devices are shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance.

| Contents | Pictures | Number |
|------------------------------|----------|-------------------------------------------|
| Router | #100 pp | 1 |
| 2.4GHz/5GHz Wi-Fi Antenna | | 2 (TGAR-1062+/2062+) or 4 (TGAR-1662+) |
| 3G or 4G Antenna | | 1 (TGAR-1062+/1662+) or 2 (TGAR-2062+) |
| CD | | 1 |
| QIG | | 1 |
| Allen Key | | 1 |

Preparation

Before you begin installing the device, make sure you have all of the package contents available and a PC with Microsoft Internet Explorer 6.0 or later, for using web-based system management tools.

Safety & Warnings



Elevated Operating Ambient: If installed in a closed environment, make sure the operating ambient temperature is compatible with the maximum ambient temperature (Tma) specified by the manufacturer.



Reduced Air Flow: Make sure the amount of air flow required for safe operation of the equipment is not compromised during installation.

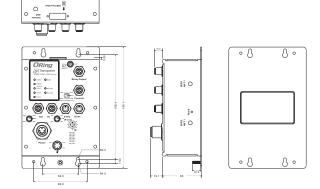


Mechanical Loading: Make sure the mounting of the equipment is not in a hazardous condition due to uneven mechanical loading

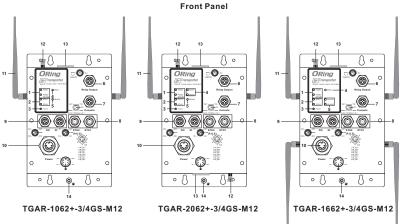
TGAR+ GPS Series

Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Dimension

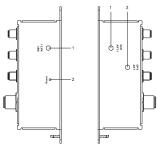


Panel Layouts



- 1. PWR status LED (PW2 with PoF indicator)
- 2. LAN port status LED
- 3. Fault status LED
- 4. WAN status LFD
- 5. WLAN status LED 6. Relay output port
- 7. Console port
- 8. Ethernet LAN ports (ETH2 with PoE)
- 9. DI/DO ports
- 10. Power connector 11. 2.4/5GHz Wi-Fi antenna
- 12. Cellular antenna connector
- 13. SIM card slot
- 14. Ground

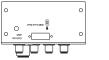
Side Pane



- 1.3G/4G Antenna connector
- 2. Reset button
- 3. GPS antenna connector

EN50155 Industrial Wireless LAN **PoE Access Point Router**

Top Panel





Bottom Panel

TGAR-2062+-3/4GS-M12

Installation

TGAR-1062+/1662+

Wall-mount

-3/4GS-M12

The device can be fixed to the wall. Follow the steps below to install the device on the wall.

Step 1: Hold the device upright against the wall Step 2: Insert four screws through the large opening of the keyhole-shaped apertures at the top and bottom of the unit and fasten the screw to the wall with a screwdriver. Step 3: Slide the device downwards and tighten the four screws for added stability.



Wiring

For pin assignments of power, console and relay output ports, please refer to the following tables.

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the grounding pin on the power connector to the grounding surface prior to connecting devices.

Power port pinouts

The device supports two sets of power supplies and uses the M23 5-pin female connector on the front panel for the dual power inputs. Step 1: Insert a power cable to the power connector on the device. Step 2: Rotate the outer ring of the cable connector until a snug fit is achieved. Make sure the connection is tight.



Relay output port pinouts





Network Connection

The AP router has two 10/100/1000 Base-T(X) Ethernet ports. According to the link type, the AP $\,$ router uses CAT 3, 4, 5, 5e, UTP cables to connect to any other network device (PCs, servers, devicees, routers, or hubs). Please refer to the following table for cable specifications

| Cable | Туре | Max. Length | Connector |
|------------|----------------------------|--------------------|-----------|
| 10Base-T | Cat. 3, 4, 5 100-ohm | UTP 100 m (328 ft) | M12 |
| 100Base-TX | Cat. 5 100-ohm UTP | UTP 100 m (328 ft) | M12 |
| 1000Base-T | Cat. 5/Cat. 5e 100-ohm UTP | UTP 100 m (328 ft) | M12 |



Quick Installation Guide

TGAR+ GPS Series

EN50155 Industrial Wireless LAN PoE Access Point Router

M12/8P Pin Definition





| PIN | Definition |
|-----|------------|
| 1 | BI_DC+ |
| 2 | BI_DD+ |
| 3 | BI_DD- |
| 4 | BI_DA- |
| 5 | BI_DB+ |
| 6 | BI_DA+ |
| 7 | BI_DC- |
| 0 | DI DD |

Console Port Pin Definition





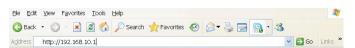
Configurations

After installing the router and connecting cables, start the device by turning on power. The green power LED should turn on. Please refer to the following tablet for LED indication.

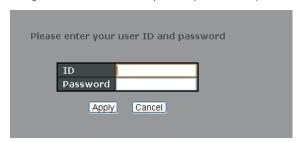
| LED | Color | Status | Description |
|--------------|-------------------|----------|------------------------------------------------------------------------------------|
| PWR1 | Green | On | DC power 1 activated. |
| PWR2 (PoE) | Green | On | DC power 2 activated or PoE enabled (when device is not connected to power supply) |
| ETH1 | On Port is linked | | Port is linked |
| EINI | H1 Green | Blinking | Data transmitted. |
| ETH2 Green | Green | On | Port is linked |
| LINZ | Gleen | Blinking | Data transmitted. |
| WLAN 1 (2) | WLAN 1 (2) Green | | WLAN is activated |
| VVLAIV I (2) | Gleen | Blinking | Transmitting data |
| WAN1 (2) | Green | On | Modem is connected |
| Fault | Red | On | Error occurs (power fails or port disconnected) |

Follow the steps below to log in and access the system:

1. Launch the Internet Explorer and type in IP address of the device. The default static IP address is 192.168.10.1



2. Log in with default user name and password (both are admin).



3. After logging in, you should see the following screen. For more information on configurations, please refer to the user manual. For information on operating the device using ORing's Open-Vision management utility, please go to ORing website.

| ORING | Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n Wireless Access Point with 2x10/100/1000Base-T(X), M12 connector, EU Band |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| open all a Home Toverview Wiless Settings Advanced Settings System Status Advanced Settings System Status | Home Welcome to Industrial EN60155 Dual RF in IEEE 802.11 aftrigh Wireless Access Point with 2x10/100/1000Base-T03, M12 connector web configuration page. The setup wizard will guide you to configure the Access Point. Please follow the witard step by step to configure the Access Point. Run Wizard |

Resetting

To restore the device configurations back to the factory defaults, press the **Reset** button for a few seconds. Once the power indicator starts to flash, release the button. The device will then reboot and return to factory defaults.

Specifications

| ORing WLAN Access Point Model | TGAR-1062+ -3GS-M12 | TGAR-1062+ -4GS-M12 | TGAR-2062+ -3GS-M12 | TGAR-2062+ -4GS-M12 | TGAR-1662+ -3GS-M12 | TGAR-1662+ -4GS-M12 |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------|------------------------------------|------------------------|
| Physical Ports | | | | | | |
| 10/100/1000Base-T(X) Ports in M12 Auto MDI/MDIX (8-pin A-coding) | 2 (1 | PoE P.D. prese | nt at ETH2 Ful | y compliant w | ith IEEE 802.3 | af) |
| DI/DO port in M12 (5-pin A-coding) | | 2(DI x 4 and DO x 4) | | | | |
| RS-232 Console port in M12 (5-pin A-coding) | | | 115200 | , 8 ,N ,1 | | |
| Relay port in M12 (5-pin A-coding) | | | 1A@2 | 4VDC | | |
| SIM Card Slot | | 1 | 2 | ! | | 1 |
| GPS | | | | | | |
| Antenna and Connector | 1 x External SM. connector | A antenna | 1 x External SM. connector | A antenna | 1 x External SM connector | A antenna |
| Frequency | 1575.42MHz | | | | | |
| WLAN Interface | | | | | | |
| Antenna and Connector | 2 x External rev | erse SMA type ar | ntenna connector | | 4 x External rev antenna connec | |
| Radio Frequency Type | DSSS, OFDM | | | | | |
| Modulation | IEEE802.11g: OI IEEE802.11a: OI | | PSK, 16QAM, 64Q PSK, 16QAM, 64Q | | | |
| Frequency Band | | 5.180~5.240 G SI: 2.412~2.472 | Hz (11 channels) Hz & 5.745~5.82 Ghz (13 channels Ghz (4 channels | 5) | ls) | |
| Transmission Rate | | | s 4/ 36/ 48/ 54 Mbp | s | | |
| Transmit Power | 802.11a: 12dBm ±1.5 dBm 802.11b: 18dBm ±1.5 dBm 802.11g: 15dBm ±1.5 dBm 802.11g: 1702: 13dBm ±1.5 dBm@150Mbps 802.11gn HT40: 12dBm ±1.5 dBm@300Mbps 802.11an HT20: 12dBm ±1.5 dBm@300Mbps 802.11an HT40: 12dBm ±1.5 dBm@0150Mbps | | | | | |
| Receiver Senstivity | 802.11b: -82dB 802.11g: -68dB 802.11gn HT20 802.11gn HT40 802.11an HT20 | 802.11a: -68d8m±2.0d8 @ 54 Mbps 802.11b: -82d8m±2.0d8 @ 11Mbps 802.11p: -68d8m±2.0d8 @ 54Mbps 802.11p H720: -64d8m±2.0d8 @ 150Mbps 802.11p H740: -60d8m±2.0d8 @ 300Mbps 802.11an H720: -64d8m±2.0d8 @ 300Mbps 802.11an H740: -60d8m±2.0d8 @ 300Mbps | | | | |
| Encryption Security | WPA/WPA2: (W WPA-PSK (256- | ication supporte | ption) 802.11i d key supported) | | | |

| Wireless Security | SSID broadcast | disable | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cellular Interface | | | | | | |
| Cellular Standard | GSM / GPRS/ EGPRS/ EDGE / WCDMA / HSDPA / HSUPA | GSM / GPRS/ EGPRS/ EDGE / WCDMA / HSDPA / HSUPA /HSPA+ /LTE | GSM / GPRS/ EGPRS/ EDGE / WCDMA / HSDPA / HSUPA | GSM / GPRS/ EGPRS/ EDGE / WCDMA / HSDPA / HSUPA /HSPA+ /LTE | GSM / GPRS/ EGPRS/ EDGE / WCDMA / HSDPA / HSUPA | GSM / GPRS/ EGPRS/ EDGE / WCDMA / HSDPA / HSUPA /HSPA+ /LTE |
| Antenna Connector | 1 x Reverse SMA Female | 1 x SMA Female | 2 x Reverse SMA Female | 2 x SMA Female | 1 x Reverse SMA Female | 1 x SMA Female |
| Band Option | Dual-band: HSUPA 1900/ 2100 MHZ Quad-band: GSM/ GPRS/ EDGE 850/900/ 1800/1900 Hz WCDMA/HSDPA 850/900/1900/ 2100 MHz | America(US) LTE: 700/1700/ LTE: 700/1700/ LTE: 700/1700/ LTE: 700/1700/ LTE: 700/1700/ LTE: 800/ MT. GSM/GPRS/ EDGE: 850/900/ 1800/1900 MHZ GSM/GPRS/ EUTOPE(EU) LTE: 800/900/ H900/1100/2600 MTZ UMTS/HSDPA/ HSUPA/HSPA+/ DC-HSPA+: 900 /2100 MHZ GSM/GPRS/ EDGE: 900/1800 /1900 MHZ | 1800/1900 Hz WCDMA/HSDPA 850/900/1900/ 2100 MHz | America(US) LTE: 700/1700/ LTE: 700/1700/ LTE: 700/1700/ LTE: 700/1700/ LTE: 700/1700/ MND: 700/ | WCDMA/HSDPA 850/900/1900/ 2100 MHz | America (US) LTE: 700/1700/ 2100 MHz UMTS/HSDPA/ HSUPA/HSPA+/ DC-HSPA+: 800 /HSDPA/HSPA+/ BOGSM/1900/2100 MHZ GSM/GPRS/ EUTOPE(EU) LTE: 800/900/ 1900/2100/ 2600 MHz UMTS/HSDPA/ DC-HSPA+: 900 /100 MHz GSM/GPRS/ EUTOPE(EU) |
| | | | | | | |
| Protocol Support | | | | | | |
| Protocol Support Protocol | ARP, BOOTP, DHO | CP, DNS, HTTP, IP, | ICMP, SNTP, TCP, | UDP, RADIUS, SNM | 1P, PPPoE, STP (IE | EE 802.1D) |
| | ARP, BOOTP, DHO | CP, DNS, HTTP, IP, | ICMP, SNTP, TCP, | UDP, RADIUS, SNM | 1P, PPPoE, STP (IE | EE 802.1D) |
| Protocol | | CP, DNS, HTTP, IP, | | UDP, RADIUS, SNM | 1P, PPPOE, STP (IE | EE 802.1D) |
| Protocol Fault Contact | | | | UDP, RADIUS, SNM | 1P, PPPOE, STP (IE | EE 802.1D) |
| Protocol Fault Contact Relay | Relay output to | | IA at 24VDC | | 1P, PPPOE, STP (IE | EE 802.1D) |
| Protocol Fault Contact Relay Power | Relay output to | carry capacity of I | IA at 24VDC | | 1P, PPPOE, STP (IE | EE 802.1D) |
| Protocol Fault Contact Relay Power Redundant Input Power | Relay output to | carry capacity of 1 | LA at 24VDC | 24 VDC Typ.) | | |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) | Relay output to | carry capacity of 1 | LA at 24VDC | 24 VDC Typ.) | | |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection | Relay output to Dual Power Inpu 9 Watts Present | carry capacity of 1 | LA at 24VDC | 24 VDC Typ.) | | |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection | Relay output to Dual Power Inpu 9 Watts Present | carry capacity of 1 | LA at 24VDC | 24 VDC Typ.) | | |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic | Relay output to Dual Power Inpu 9 Watts Present Present | carry capacity of 1 | IA at 24VDC M23 connector (2 | 24 VDC Typ.) 15 Watts | | |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure | Relay output to Dual Power Inpu 9 Watts Present Present | carry capacity of 1 sts. 12~48 VDC on 9.5 Watts | IA at 24VDC M23 connector (2 | 24 VDC Typ.) 15 Watts | | |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure Dimension (W x D x H) | Relay output to Dual Power Inpu 9 Watts Present Present 1P-40 125(W) x 65(D) | ots. 12~48 VDC on 9.5 Watts | 1A at 24VDC 1M23 connector (2 13 Watts | 15 Watts | 13 Watts | 14 Watts |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure Dimension (W x D x H) Weight (g) | Relay output to Dual Power Inpu 9 Watts Present Present 1P-40 125(W) x 65(D) | 2.5 watts 2.5 watts 2.5 watts 2.6 watts | 1A at 24VDC 1M23 connector (2 13 Watts | 15 Watts | 13 Watts | 14 Watts |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure Dimension (W x D x H) Weight (g) Environmental | Relay output to Dual Power Inpu 9 Watts Present Present IP-40 125(W) x 65(D) 985 g | 2.5 watts x 196(H) mm (4.5) 9.68 g to 185'F) | 1A at 24VDC 1M23 connector (2 13 Watts | 15 Watts | 13 Watts | 14 Watts |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure Dimension (W x D x H) Weight (g) Environmental Storage Temperature | Relay output to Dual Power Inpu 9 Watts Present Present IP-40 125(W) x 65(D) 985 g | 2.5 Watts x 196(H) mm (4.5 9.68 g to 185°F) | 1A at 24VDC 1M23 connector (2 13 Watts | 15 Watts | 13 Watts | 14 Watts |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure Dimension (W x D x H) Weight (g) Environmental Storage Temperature Operating Temperature | Relay output to Dual Power Inpu 9 Watts Present 1P-40 125(W) x 65(D) 985 g -40 to 85°C (-40 -25 to 70°C (-13 | 2.5 Watts x 196(H) mm (4.5 9.68 g to 185°F) | 1A at 24VDC 1M23 connector (2 13 Watts | 15 Watts | 13 Watts | 14 Watts |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure Dimension (W x D x H) Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity | Relay output to Dual Power Inpu 9 Watts Present 1P-40 125(W) x 65(D) 985 g -40 to 85°C (-40 -25 to 70°C (-13 5% to 95% Non- | 2.5 Watts x 196(H) mm (4.5 9.68 g to 185°F) condensing | 1A at 24VDC 1 M23 connector (2 13 Watts 22 x 2.56 x 7.72 in 1030 g | 15 Watts | 13 Watts | 14 Watts |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure Dimension (W x D x H) Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals | Relay output to Dual Power Inpu 9 Watts Present IP-40 125(W) x 65(D) 985 g -40 to 85°C (-40 -25 to 70°C (-13 5% to 95% Non- | 2.5 Watts 2.5 Watts 2.6 Watts 2.7 Watts 2.8 Watts 2.9 Watts | 1A at 24VDC 1M23 connector (2 13 Watts 22 x 2.56 x 7.72 in 1030 g 1030 g 1030 g 1030 g 1030 g | 24 VDC Typ.) 15 Watts ch.) | 13 Watts 1098 g | 14 Watts |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure Dimension (W x D x H) Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI | Relay output to Dual Power Inpu 9 Watts Present IP-40 125(W) x 65(D) 985 g -40 to 85°C (-40 -25 to 70°C (-13 5% to 95% Non- | ats. 12~48 VDC on 9.5 Watts x 196(H) mm (4.5 968 g to 185°F) to 158°F) condensing SPR (EN55022) cla SSD), EN61000-4-8 SS, EN61000-4-8 | 1A at 24VDC 1M23 connector (2 13 Watts 22 x 2.56 x 7.72 in 1030 g 1030 g 1030 g 1030 g 1030 g | 24 VDC Typ.) 15 Watts ch.) 1033 g | 13 Watts 1098 g | 14 Watts |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure Dimension (W x D x H) Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI EMS | Relay output to. Dual Power Inpu 9 Watts Present IP-40 125(W) x 65(D) 985 g -40 to 85°C (-40 -25 to 70°C (-13 5% to 95% Non- FCC Part 15, CIS EN61000-4-6 (C | ats. 12~48 VDC on 9.5 Watts x 196(H) mm (4.5 968 g to 185°F) to 158°F) condensing SPR (EN55022) cla SSD), EN61000-4-8 SS, EN61000-4-8 | 1A at 24VDC 1M23 connector (2 13 Watts 22 x 2.56 x 7.72 in 1030 g 1030 g 1030 g 1030 g 1030 g | 24 VDC Typ.) 15 Watts ch.) 1033 g | 13 Watts 1098 g | 14 Watts |
| Protocol Fault Contact Relay Power Redundant Input Power Power Consumption(Typ.) Overload Current Protection Reverse Polarity Protection Physical Characteristic Enclosure Dimension (W x D x H) Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI EMS Shock | Relay output to. Dual Power Inpu 9 Watts Present IP-40 125(W) x 65(D) 985 g -40 to 85°C (-40 -25 to 70°C (-13 5% to 95% Non- FCC Part 15, CIS EN61000-4-6 (C IEC60068-2-27, | ats. 12~48 VDC on 9.5 Watts x 196(H) mm (4.5 968 g to 185°F) to 158°F) condensing SPR (EN55022) cla SSD), EN61000-4-8 SS, EN61000-4-8 | 1A at 24VDC 1M23 connector (2 13 Watts 22 x 2.56 x 7.72 in 1030 g 1030 g 1030 g 1030 g 1030 g | 24 VDC Typ.) 15 Watts ch.) 1033 g | 13 Watts 1098 g | 14 Watts |

