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KONA PHOTON GATEWAY

USER GUIDE

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1 Product Description

1.1 Overview

The Kona Photon Gateway (Photon), conceptually shown in Figure 1 is a solar powered carrier grade LoRa Gateway providing wide area coverage for the Internet of Things (IoT) ecosystem. It is designed to support various ISM Bands worldwide, including but not limited to US915, AU915, EU868, AS923, and allows connectivity for class A, B and C end-devices.

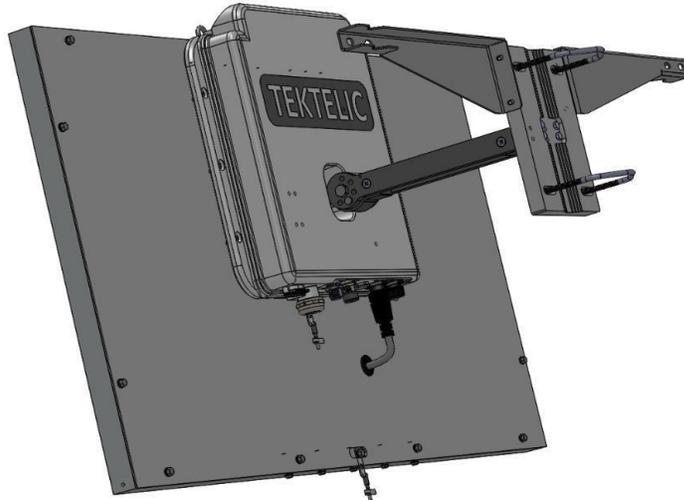


Figure 1: Kona Photon Gateway

The Kona Photon product is comprised of the Kona Photon Radio Module (radio module) and the Kona Photon Solar Panel Assembly (solar panel). The gateway module is available in two frequency variants and can be ordered with LTE (default) or satellite backhaul modem. The Kona Photon Radio Module product variants are listed in Table 1.

Table 1: Kona Photon Radio Module Product Variants

T-Code	Product Descriptions	Region
T0008479	LORA GATEWAY MODULE, KONA PHOTON, 900 MHZ, CELLULAR MODEM	NA
T0008551	LORA GATEWAY MODULE, KONA PHOTON, 860 MHZ, CELLULAR MODEM	EU

The Kona Photon Solar Panel Assembly is available in two sizes, 50 and 95 W. The Photon Radio Module can support the addition of a second solar panel assembly if an optional expansion cable.

Table 2: Kona Photon Solar Panel Assembly Product Variants

T-Code	Product Descriptions
T0008623	SOLAR PANEL MECHANICAL ASSEMBLY, 95W, KONA PHOTON
T0008624	SOLAR PANEL MECHANICAL ASSEMBLY, 50W, KONA PHOTON

1.2 Specifications

1.2.1 Radio Capability

Table 3: Radio Specifications

Description	Specification	Comments
LoRa Transceiver: TDD operation RX TX	8 x 125kHz, 1 wideband, 1 FSK 1 TX	Supports class A, B and C devices
Tx Power (max)	27 dBm	Conducted power
Rx Sensitivity	-141 dBm	SF12
Cellular Backhaul	3G/4G	Cat6 modem (Cat1 global modem will replace Cat6 modem in future release)
Satellite Backhaul ¹		Optional
GNSS	GPS, GLONASS, Galileo, QZSS	Internal antenna
LoRa Antennas	3/6/8 dBi (External) 2.6 dBi (Internal option)	
Rx Noise Figure	2.5 dB	
Rx Linearity	-5 dBm	
Rx Dynamic Range	70 dB Analog, 100+ dB Digital	

1.2.2 External Interfaces

Table 4: External Interfaces

Description	Specification	Comments
Panel Power (P1, P2)	4 pin bayonet style	Use P1 first as it does not have an environmental protection cap
LoRa Antenna Port	N-type Female	
3G/4G Antenna Port	N-type Female	
Ethernet Port	100/1000 BaseT PoE 802.3at Type 1 (802.3af)	Not intended for permanent connection Do not power from PoE while a solar panel is connected
Access Port SIM tray USB Visible LED	Nano SIM Micro-B Multi-color	

¹ Selection of satellite backhaul option will delete 3G/4G backhaul

1.2.3 Power

Table 5: Power Specifications

Description	Specification	Comments
Solar Panel(s) Panel Type Panel Efficiency Rated Power	Monocrystalline 20% (typical) 50 or 95 W	site specific - more or less power may be required depending on geographical location
MPPT Charge Controller	100 W	
Energy Storage Battery technology Battery capacity Battery charge temperature Battery discharge temperature	LiFePO4 220 Wh -30° to 50° C -40° to 60° C	
PoE ²	not intended for permanent use	PoE is to provide power only during factory test, debug, and commissioning
Radio Power Consumption	4W for Gen1 2.2W for Gen2	

1.2.4 Mechanical

Table 6: Mechanical Specifications

Description	Specification	Comments
Dimensions	970 x 540 x 120mm	Based on gateway with 95 W panel; not including mounting arm
Weight Solar Panel Assembly Radio Module Assembly	7 kg 6 kg	95 W panel, including mounting frame
Mounting	Pole/Wall	
Solar Panel Tilt	10° to 90°	10° increments
Gateway thermal management	Passive	

² Availability Target - TBD.

1.2.5 Environmental

Table 7: Environmental Specifications

Description	Specification
Ingress Protection	IP-67
Operating Temperature	-30 °C to 45 °C
Relative Humidity	10% to 100 % Condensing
Operating Altitude	-60 m to 4,000 m

1.2.6 Compliance

Table 8: Compliance Specifications

Description	Specification
Regulatory Compliance	Safety: UL/CSA/EN/IEC 62368-1 Radiated Immunity: EN 61000-4-3 ESD Immunity: EN 61000-4-2 EFT Immunity: EN 61000-4-4 Conducted Immunity: EN 61000-4-6 Surge Immunity: EN 61000-4-5 Emissions: FCC pt. 15.109 Class B, FCC pt. 15.209 FCC pt. 15.247 EN 300 220 EN 301 489

1.3 Physical Interfaces

Figure 2 illustrates the bulkhead layout for the Kona Photon Gateway.

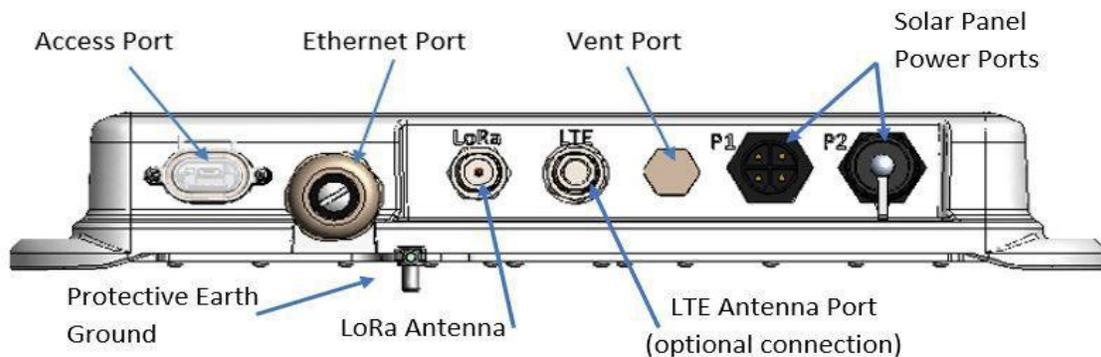


Figure 2: Photon Radio Module Connector Field

The Photon Radio Module external connectors are listed in Table 9.

Table 9: Photon Radio Module External Connector Types

Interface	Connector Type	Comments
Solar Panel Power (P1, P2)	4 pin bayonet style	
Cellular Antenna	N-Type female	
LoRa Antenna	N-Type female	with Integrated 10kA Surge Protection
Copper Ethernet	RJ45 Modular Jack	Module test only. Not intended for permanent connection
USB	Micro-B	Module test only. Not intended for permanent connection

1.4 Exposed services

The following services are exposed in factory default state:

- SSH (TCP port 22) – Provides secure command-line access to the equipment.
- SNMPv3 (UDP port 161) – Secure management and monitoring with encryption and authentication.
- mDNS (UDP port 5353) – Enables local service discovery, allowing the use of user-friendly domain names when addressing the equipment, limited to the local network scope.
- ICMP (Ping) – Basic connectivity and availability check.
- HTTPS (TCP port 443) – Provides secure access to the web management interface using TLS encryption.

2 Installation

2.1 Safety Precautions

- **CAUTION:** Parts of the Kona Photon Gateway can become hot to the touch due to the systems direct exposure to high intensity solar radiation.
- The Kona Photon Gateway contains an internal battery and can only be powered down by unplugging both solar panel connectors.
- The Kona Photon Gateway has no internal field serviceable parts. The Photon Radio Module must only be opened by an approved TEKTELIC service center.
- All installation practices must be in accordance with the local and national electrical codes.
- Do not work on the system during periods of lightning activity.
- The Kona Photon Gateway is considered permanently connected equipment. The Protective Earth Ground connection (that is, the chassis ground) is always required.
- Ensure the Kona Photon Gateway Protective Earth Ground connection is properly terminated prior to the connection of any other interface.
- The Kona Photon Gateway contains primary lightning surge suppression on the copper Ethernet port, and the LoRa RF antenna port. The primary lightning protectors have the ability to bridge the interface to chassis during over-voltages. Ensure that the Protective Earth Ground connection is always in place.
- Ensure that the Kona Photon Gateway is secured to eliminate any physical hazard to people or property. The Gateway must be securely mounted according to the mounting instructions prior to any cable connection and operation.
- Never power the Gateway from PoE when a solar panel is connected. This can result in unexpected operation. Always unplug any and all solar panel connectors prior to applying PoE. The PoE connection is for module test only.
- Always ensure the Ethernet connection port and 3G/4G Modem SIM card access port are properly sealed after installation or servicing.

2.2 Required Equipment

The following equipment will be received in the box:

1. Kona Photon Gateway
2. Mounting kit and Sim extraction tool
3. Ground cable, two-hole lug to unterminated, 10 awg

To ensure optimized operation of gateway you will also need the following equipment (can be purchased separately from Tektelic):

1. Required:
 - RF Cable
 - LoRa Antenna
2. Optional:
 - LTE Antenna and one or two 4FF Sim cards
 - Ethernet Cable

The following tools are required to install the KONA Photon Gateway:

1. A 6-point metric socket set and torque wrench drive.
2. Anti-oxidant compound (NO-OX-ID, Penetrox, Noalox, Ox-Gard or equivalent).
3. A small wire brush.
4. A clean cloth.
5. Weatherproofing tape kit for the RF connector (Scotch Wireless Weatherproofing Kit, WK 101 recommended).
6. Supplied pole mounting accessories (shown in Figure 6) for pole mounting or appropriate screws or bolts (four sized M6) with any required anchors according to the wall construction for wall mounting.

2.3 Unpacking and Inspection

The following should be considered during the unpacking of a new Kona Photon Gateway.

1. Inspect the shipping carton and report any significant damage to TEKTELIC.
2. Unpacking should be conducted in a clean and dry location when possible.
3. Do not discard the shipping box or foam inserts as they will be required if a unit is returned for repair or re-configuration.

The Kona Photon Gateway is shipped in two packages, one containing the Photon Radio Module (Figure 3), and the other containing the Photon Solar Panel Assembly (Figure 4).



Figure 3: Kona Photon Radio Module

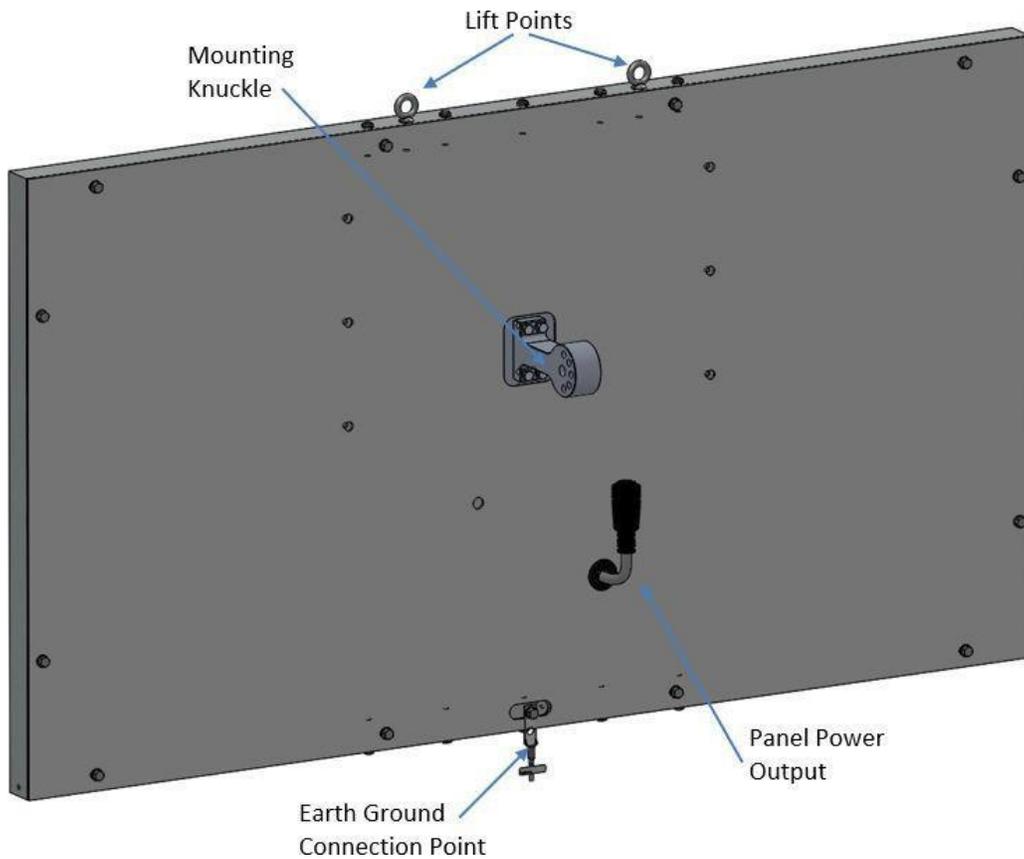


Figure 4: Photon Solar Panel Assembly

2.4 Gateway Commissioning

Once the Photon Radio Module has been unpacked and inspected, it is advisable to perform all commissioning activities prior to assembling it to the Photon Solar Panel Assembly. Access

becomes more difficult once the Radio Module is assembled to the solar panel due to size and weight.

2.4.1 SIM Tray Access

Remove the two M2.5 x 8mm screws holding the access port cover in order to access the SIM tray.

The Photon Radio Module is equipped with a dual SIM slot which can be configured to the user's liking. The primary and secondary slots can be configured in the software configuration. Prior to inserting or replacing SIM, please ensure that the unit is turned off. If 2 SIM cards are used, and the primary SIM fails or is missing, the failover mechanism will automatically switch over to the secondary SIM. When only one SIM is used, please place the SIM in slot 0 (primary SIM / inner slot) as indicated by Figure 4. Slot 1 is for the secondary SIM (outer slot).



Figure 5: SIM Tray Layout

NOTE: SIM Tray shall not be inserted or removed while the gateway is powered on.

The SIM tray can be removed by pulling on the SIM tray cover's pull tab (refer to Figure 6 and Figure 7).

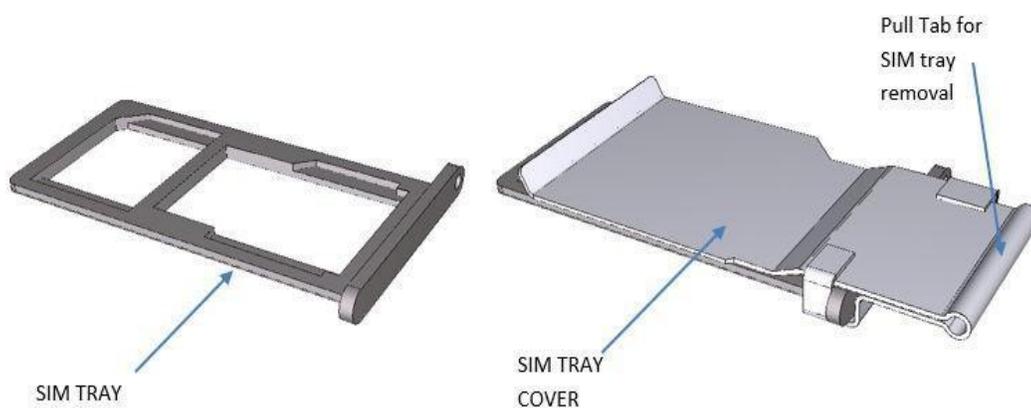


Figure 6: SIM Tray Cover

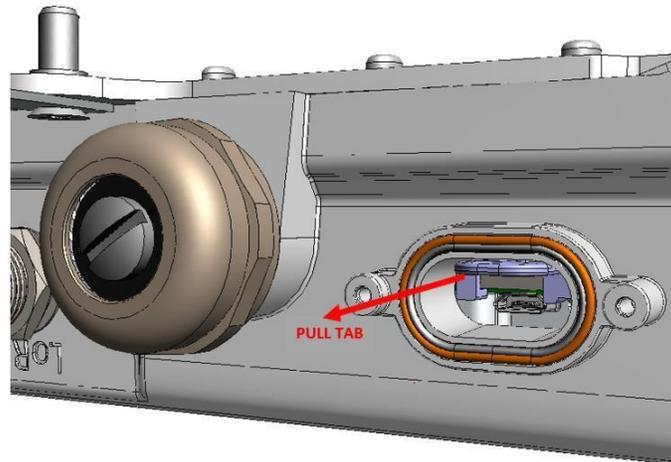


Figure 7: SIM Tray Removal

Ensure the SIM access cover gasket is properly in place and the cover is properly secured using the two M2.5 cover screws.

2.4.2 Photon Radio Module Powering for Commissioning

During commissioning the radio module may be powered via PoE, provided there is no connection the panel power ports P1 and/or P2. To connect PoE, remove the ethernet port cable gland and plug the ethernet cable into the RJ45 jack on the radio module. Remove the cable when finished and reinstall the cable gland, tightening to 6 Nm.

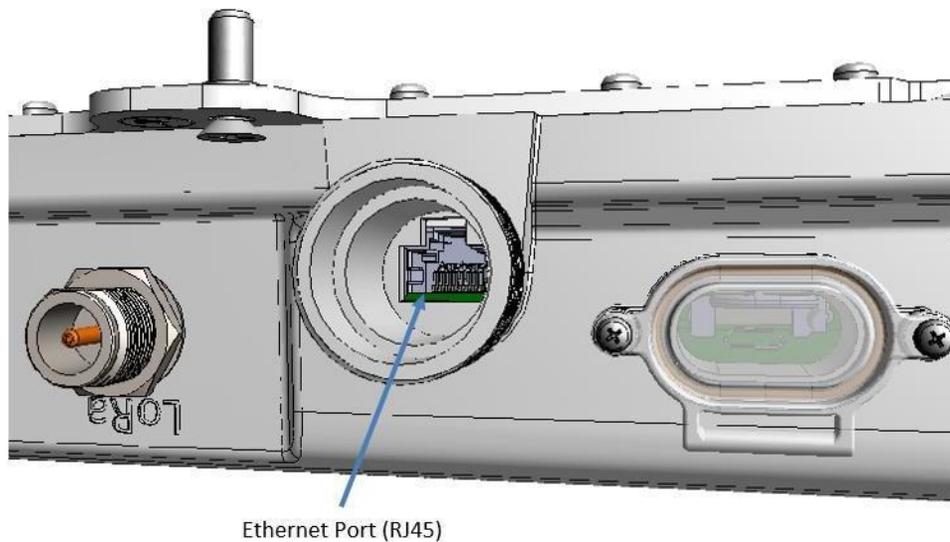


Figure 8: PoE Connection

2.5 Kona Photon Gateway Mounting

The following assembly steps apply to both the Solar Gateway system as well as an expansion panel except that the expansion panel does not have a radio module attachment step.

2.5.1 Attach Mounting Knuckle to Solar Panel

Connect the mounting knuckle to the solar panel's mounting frame using the supplied M5 x 0.8 – 24mm machine screws. Tighten the mounting screws to 2.5 Nm (22 in·lbs).

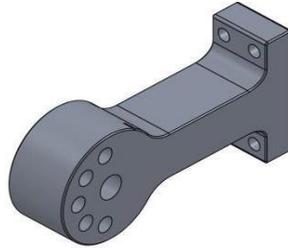


Figure 9: Mounting Knuckle

2.5.2 Attach Radio Module to Solar Panel

The radio module mounts to the rear of the solar panel with 6 M5 X 0.8 - 14 MM machine screws (Phillips drive). Orient the radio module as shown in Figure 10 with the connector field facing down. Tighten the mounting screws to 2.5 Nm (22 in·lbs).

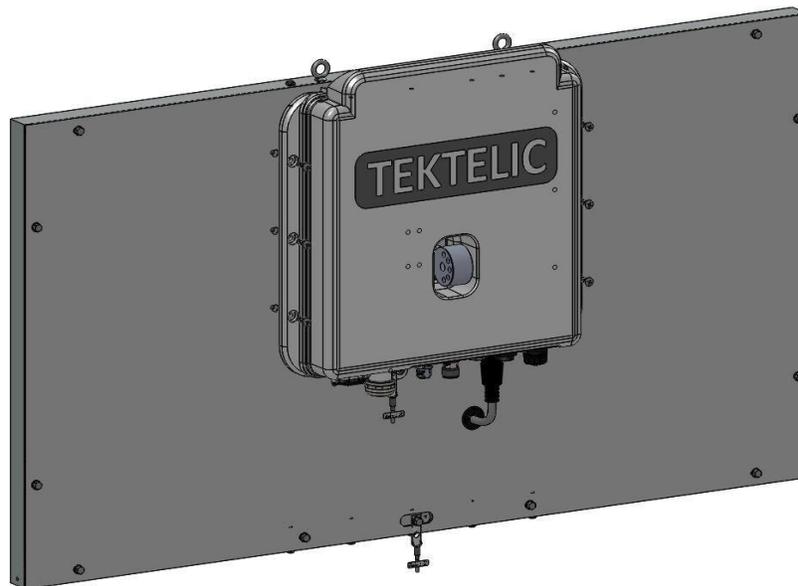


Figure 10: Photon Gateway Assembly

2.5.3 Mounting Bracket/Arm Installation

2.5.3.1 Mounting Arm Attachment

Attach the assembled mounting arm to the mounting bracket using the supplied M5 X 0.8 - 25 MM machine screws (refer to Figure 11). Tighten the mounting screws to 2.5 Nm (22 in·lbs).

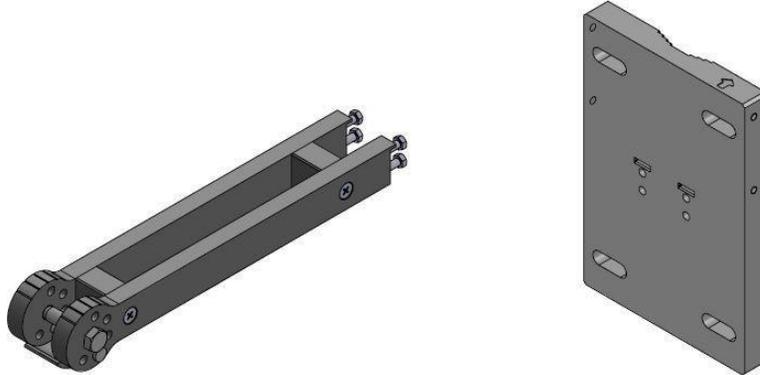


Figure 11: Mounting Arm Attachment

2.5.3.2 Attach Pole/Wall Mount Bracket Assembly

The mounting bracket assembly can be pole or wall mounted. For pole mounting option, shown in Figure 12, use the supplied U-bolt accessory kit. Tighten the mounting screws to 2.5 Nm (22 in·lbs).

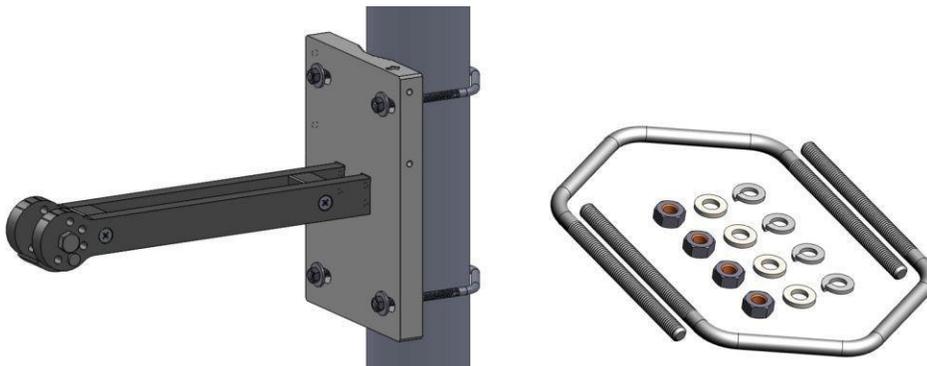


Figure 12: Pole Mounting Accessories

Wall mounting hardware is not included and shall be field supplied and selected to support the full system weight.

2.5.3.3 Solar Panel Assembly Attachment to Mounting Arm

Remove the bolt and quick release pin from the end of the mounting arm. Insert the mounting knuckle of the gateway panel assembly into the end of the mounting arm and secure by inserting the bolt through the center hole. Loosely affix the locknut to the end of the bolt.

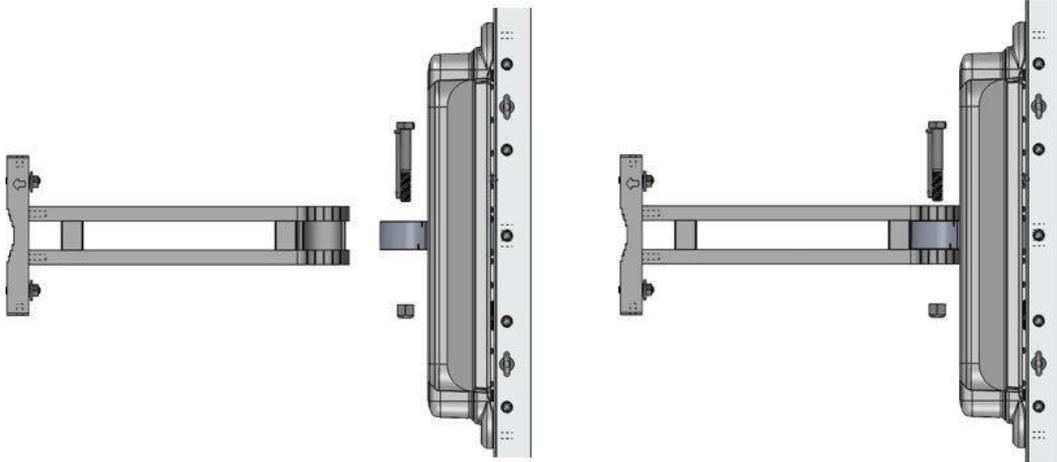


Figure 13: Solar Panel Assembly to Mounting Arm

Adjust the panel tilt angle as desired and insert quick release pin to fix the angle. Tighten the locknut on the end of the bolt to 2.5 Nm (22 in·lbs).

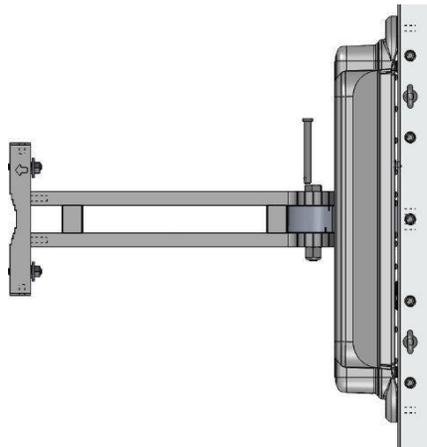


Figure 14: Solar Panel Angle Adjustment

Panel angle can be adjusted in 10-degree increments between the range of 10° - 90°. Please contact TEKTELIC Sales Support for assistance in determining the optimal panel angle for a specific location.

NOTE: The Photon Gateway (solar panel plus radio module) weighs approximately 15kg, making attachment to the mounting arm difficult for a single person. Lift points are available on the panel to aid in panel installation.

2.6 Ground Cable Installation

The Kona Photon Gateway is considered Permanently Connected Equipment and requires a permanently connected Protective Earth Ground (PEG) conductor. The Protective Earth Ground connection is made through a M4/#8 on center hole lug with 10mm maximum OD to the ground termination point illustrated in Figure 9. The recommended ground cable gauge is #10 AWG. The Kona Photon Gateway grounding system shall follow local and national electrical codes. The Protective Earth Ground conductor terminated at the hole lug point is mandatory and must be the first connection made to the Kona Photon Gateway during installation. Proper routing and termination of this cable is key to robust lightning withstand performance; in high susceptibility installations, every effort shall be made to minimize connection inductance and ground bed resistance. The ground cable installation steps are as follows:

1. Lightly abrade the surface of the casting ground area with a fine wire brush to remove the oxide layer.
2. Use a clean cloth to remove any debris from this surface.
3. Immediately coat the contact surface with a thin layer of anti-oxidant compound.
4. Install the ground cable through its single hole lug onto the chassis ground point using the supplied M4x0.7 – 12mm bolt with flat, lock, and star washers, torqued to 2.5 Nm (22 in·lbs).



Figure 15: Kona Photon Radio Module Ground Connection Point

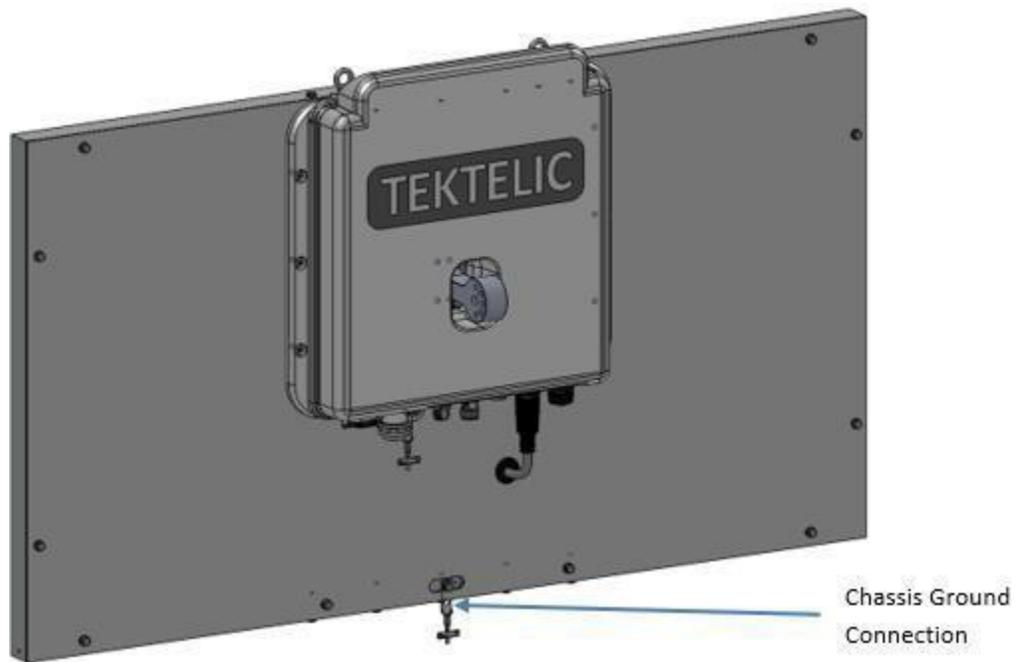


Figure 16: Kona Photon Solar Panel Ground Connection Point

2.7 RF Cable Installation

The Kona Photon Radio Module installation requires connection to an external LoRa RF antenna and optionally to an external Cellular RF antenna. The RF cables attach to an N-Type connector located on the bulkhead of the radio module. Torque the cable RF connector to 0.79 to 1.13 Nm (7 to 10 in·lbs). The N-Type connector interface to a cable is not water proof and must be taped. TEKTELIC recommends taping with Scotch Wireless Weatherproofing Kit, WK-101. Follow the taping procedures outlined by the supplier of this tape system.

NOTE: Cellular antenna port is not surge protected internal to the Gateway, therefore an external surge suppressor such as Polyphaser p/n TSX-NFM or equivalent is recommended any time an external cellular antenna is connected.

2.8 Solar Panel Power Cable Connection

The Kona Photon Gateway allows for connection to one or two solar panels. Always use panel power port P1 first as it does not have a protective cap. Ensure the protective cap is installed onto panel power port P2 when not in use. The panel power port is a special interface, only panels provided by TEKTELIC can be used.

Use caution when handling a solar panel power connector as it can be energized from sunlight exposure. Hand-tighten the panel power port connector(s).

2.9 Copper Ethernet Cable Installation

The Kona Photon Radio Module's ethernet port is not intended for permanent connection, but may be used to power and communicate with the radio during commissioning. Remove the cable gland and plug the ethernet cable into the RJ45 jack on the radio module. Remove the cable when finished and reinstall the cable gland, tightening to 6Nm.

2.10 System Sighting

Proper sighting is key to optimum system performance. Photon Gateway sighting should always be chosen with a goal of minimum of solar shadowing from buildings, trees, and other tall structures.

2.10.1 Azimuth Angle

The Gateway solar panel should always be oriented directly true south in the northern hemisphere or true north in the southern hemisphere. Note that true south or north are generally different from magnetic south or north but the latter can be used to determine the former along with a location-based correction. Today, most smartphones include an app to easily determine true north.

2.10.2 Elevation Angle

The Gateway solar panel elevation angle (also called altitude angle or tilt angle) follows a method of "maximization of the solar minimum" rather than "latitude tilt" which is commonly used to achieve maximum annual average irradiation. This means the solar panel tilt should be chosen to maximize the solar irradiation at the winter solstice in the northern hemisphere or the summer solstice in the southern hemisphere. By definition, the tilt angle is measured from horizontal such that 0° is horizontal and 90° is vertical.

The Photon Gateway tilt angle is adjustable in 10° increments from 10° to 80°. Choose the most appropriate tilt angle by determining the latitude of the Gateway site and using Table 10 to look up the Gateway tilt angle setting. An easy way to determine site latitude is through Google Maps by right clicking on the site's location; the first number is the latitude.

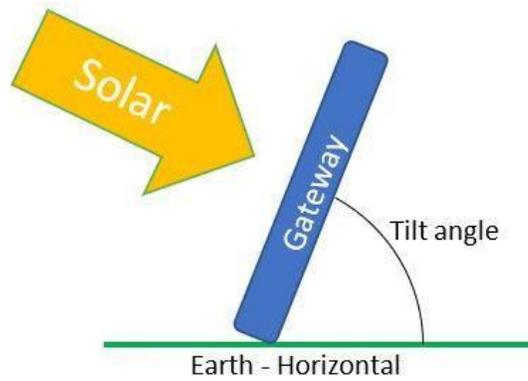


Figure 17: Photon Gateway Panel Tilt

Table 10 lists the optimum latitude range associated with each Gateway panel tilt angle.

Table 10: Photon Gateway Panel Tilt Angles and Latitude Ranges

Panel Tilt Angle	Latitude Range
80°	54° and above
70°	42° to 54°
60°	33° to 42°
50°	25° to 33°
40°	19° to 25°
30°	13° to 19°
20°	7° to 13°
10°	0° to 7°

2.11 Proposition 65 Statement

⚠ WARNING: This product can expose you to chemicals including lead, beryllium & nickel, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

3 Radio Compliance Statements

Federal Communications Commission

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

To comply with FCC/IC RF exposure limits for general population / uncontrolled exposure, the antennas used for this transmitter must be installed to provide a separation distance of at least 30 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. This product must be installed by professional trained RF technicians.

Industry Canada

This Device complies with Industry Canada License-exempt RSS standard(s). 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 radio transmitter 22504-T0009193 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

The required antenna impedance is 50 ohms.

Only omnidirectional type antennas with maximum gain of 8dBi can be used for the LoRa radio of this product. Antenna(s) shall be installed to location providing a separation distance of at least 13.8 inches (35 cm) from any human body.

During product operation, always keep a separation distance of at least 13.8 inches (35 cm) from any connected antenna(s). Before servicing the product, the antenna(s) or cables, turn off the transmission function or the unit power if you have to get closer than the minimum separation distance. This product must be installed by professional trained RF technicians.

Industrie Canada

Cet appareil est conforme aux normes RSS exemptes de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes :

1. Cet appareil ne doit pas causer d'interférences, et
2. Cet appareil doit accepter toute interférence, y compris celles pouvant entraîner un fonctionnement indésirable de l'appareil.

Ce transmetteur radio 22504-T0009193 a été approuvé par Industrie Canada pour fonctionner avec les types d'antennes énumérés ci-dessous avec le gain maximal autorisé indiqué. Les types d'antennes non inclus dans cette liste, ayant un gain supérieur au gain maximal indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil.

L'impédance requise de l'antenne est de 50 ohms.

Seules les antennes de type omnidirectionnel avec un gain maximal de 8 dBi peuvent être utilisées pour la radio LoRa de ce produit. L'antenne ou les antennes doivent être installées à un emplacement offrant une distance de séparation d'au moins 35 cm (13,8 pouces) de tout corps humain.

Pendant le fonctionnement du produit, maintenez toujours une distance de séparation d'au moins 35 cm (13,8 pouces) de toute antenne connectée. Avant de procéder à l'entretien du produit, de l'antenne ou des câbles, éteignez la fonction de transmission ou l'alimentation de l'appareil si vous devez vous rapprocher de la distance minimale de séparation. Ce produit doit être installé par des techniciens RF professionnels et formés.