



P5G-Outdoor ISC-PS2400

Outdoor 5G NR FR1 4T4R Small Cell

User Guide

Document Version v1.0.4
Document Release Date: 2026-09-08
Document Number: UG-02050



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1. Country Safety Statements

EU Declaration of Conformity (DoC)

EU: Electromagnetic fields (Directive 2014/53/EU)

European Council Recommendation 2014/53/EU details basic restrictions and reference levels on human exposure to electromagnetic fields as advised by the ICNIRP. Adherence to these recommended restrictions and reference levels should provide a high level of protection as regards the established health effects that may result from exposure to electromagnetic fields.

Hereby, PEGATRON Corporation declares that the radio equipment types <in this document> are in compliance with Directive 2014/53/EU (RED).

RF_007_1002

EU Declaration of Conformity (DoC)

Hereby we,

Name of manufacturer: PEGATRON CORPORATION

Address: 5F, NO. 76, LIGONG ST., BEITOU DISTRICT, TAIPEI CITY 113, TAIWAN

Zip code & City: TAIPEI CITY 113

Country: TAIWAN

Telephone number: +8862 8143 9001 #32935

I declare that this DoC is issued under our sole responsibility and that this product:

Product description: 5G Integrated Small Cell

Type designation(s): PS1400-781

Trademark: PEGATRON

Batch / Serial number: PS1400-78C

Object of the declaration (further identification of the radio equipment allowing traceability; it may include a color image for the identification of the radio equipment)

is in conformity with the relevant Union harmonization legislation:

Radio Equipment directive: 2014 / 53 / EU
and other Union harmonization legislation where applicable:

with reference to the following standards applied:

EN 61326-1:2009+A11:2020
EN 301 893-1:2017
EN 301 893-2:2017
EN 301 893-3:2017
EN 301 893-4:2017
EN 301 893-5:2017
EN 301 893-6:2017
EN 301 893-7:2017
EN 301 893-8:2017
EN 301 893-9:2017
EN 301 893-10:2017
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EN 301 893-100:2017

The Notified Body Telecommunication B.V., with Notified Body number 0540 performed:
[choose applicable Modules: d]

Where applicable:
The issued EU-type examination certificate: [PS1400-781/001]

Description of accessories and components, including software, which allow the radio equipment to operate as intended and covered by the DoC:

Signed for and on behalf of:

Hereby we declare that this DoC is issued under our sole responsibility and that this product:

- Product description: 5G Integrated Small Cell
- Trademark: PEGATRON
- Batch / Serial number: PS2400 Series

Model	5G NR Band	RAM	HW Frequency Support (MHz)	Max. Antenna Gain (dBi)
PS2400-7832Q	n78	32GB	3450 MHz – 3550 MHz	12.54
PS2400-7816Q	n78	16GB	3450 MHz – 3550 MHz	12.54
PS2400-7832O	n78	32GB	3700 MHz – 3800 MHz	12.54
PS2400-7816O	n78	16GB	3700 MHz – 3800 MHz	12.54
PS2400-7832CE	n78	32GB	3400 MHz – 3800 MHz	14.00
PS2400-7816CE	n78	16GB	3400 MHz – 3800 MHz	14.00
PS2400-7832CES	n78	32GB	3400 MHz – 3800 MHz	12.54

Common specs: Outdoor, DC power, External Antenna 4T4R, 5W TX.

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CE: RF Exposure Statement

To comply with RF exposure requirements, this equipment must be installed and operated ensuring the minimum separation distance specified below is maintained between the radiator and any person’s body.

- Model(s): PS2400-7832CE, PS2400-7816CE
- Frequency Range: 3400–3800 MHz
- Maximum RF Output Power: 44.12 dBm
- Maximum EIRP: 57.57 dBm
- Minimum Compliance Distance: 214 cm

UK: Hazardous Substance Notice

This product do not contain hazardous substances (as defined in UK Control of Substances Hazardous to Health Regulations 1989 and the Dangerous Substances Regulations 1990). At the end of this product’s life cycle, the customer should consult with the system integrator to ensure that the product is disposed of in conformance with the relevant regulatory requirements.

EU: Waste from Electrical and Electronic Equipment (WEEE)

This symbol means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Proper recycling of your product will protect human health and the environment.



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USA: 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.

FCC Caution: Changes or modifications made to this device not expressly approved by the manufacturer may void the FCC authorization to operate this device.

FCC Class A Notice

This equipment has 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 may radiate radio frequency energy and, if not installed and used in accordance with the instructions provided in this manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential environment is likely to cause harmful interference. In such cases, the user will be required to correct the interference at their own expense.

USA: FCC RF Exposure Information (MPE)

- This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.
- This equipment should be installed and operated with minimum distance **50 cm (19.7 in.)** between the radiator & your body.
- The product is to be installed according to the installation instructions. The User/Operator does not have access to the device once the device is installed and in use. This product is designed for specific application and needs to be installed by qualified personnel who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

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Class 1 Laser Product



SFP+ Port Warning: Only use certified Class 1 optical fiber transceiver modules. After installation, this product is considered a Class 1 laser product.

French **Avertissement concernant le port SFP+ :** Utilisez uniquement des modules émetteur-récepteur à fibre optique certifiés de classe 1. Après installation, ce produit est considéré comme un produit laser de classe 1.

Laser notice

The information about the name and publication date of the standard (IEC60825-1: 2014) used for laser classification shall be described. Statement as follows:

PRODUCT COMPLIES WITH 21 CFR 1040.10 AND 1040.11 or "Complies with FDA performance standards for laser products except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019." or "Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

Manufacturer information

The full name and address of the manufacturer of the product provided on the outer housing (enclosure) of the product, outside of the package, container, user manuals or product's directions for use per 21CFR 1010.3(1) and Laser Notice No. 53.

See page 2 or last page of this document.

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Equipment class grounding

WARNING: Class III equipment achieves electric shock protection through basic insulation and protective earth grounding. This requires all conductive parts that could assume a hazardous voltage in the event of basic insulation failure to be connected to a protective earth conductor.

FRENCH: Les équipements de classe III assurent la protection contre les chocs électriques grâce à une isolation de base et une mise à la terre de protection. Cela exige que toutes les parties conductrices susceptibles de prendre une tension dangereuse en cas de défaillance de l'isolation de base soient connectées à un conducteur de mise à la terre de protection.

Restricted access location

WARNING: This device must be installed in a location with restricted access, and only allowed access using a security device or method by users who have been instructed about the reasons for the control.

FRENCH: Cet appareil doit être installé dans un emplacement à accès restreint et l'accès ne doit être autorisé qu'aux utilisateurs ayant été informés des raisons de ce contrôle, en utilisant un dispositif ou une méthode de sécurité.

High temperatures cautions

CAUTION:To avoid severe burns, do not touch any part of this device for at least 1.5 hours after turning it off. Internal components may remain extremely hot.

FRENCH: Pour éviter des brûlures graves, ne touchez aucune partie de cet appareil pendant au moins 1,5 heure après l'avoir éteint. Les composants internes peuvent rester extrêmement chauds.

USA & Canada: Radiation notice

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure."

FRENCH: L'utilisation des commandes ou réglages ou l'exécution des procédures autres que celles spécifiées dans les présentes exigences peuvent être la cause d'une exposition à un rayonnement dangereux.

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UL outdoor usage requirements

NOTE: All interconnecting cables must be routed inside UL listed conduits for outdoor use. This device is designed for outdoor use with an ingress protection code of IP65.

FRENCH: Tous les câbles interconnectés doivent être acheminés à l'intérieur de conduits homologués UL pour une utilisation en extérieur. Cet appareil est conçu pour une utilisation en extérieur avec un indice de protection IP65.

Detachable antenna usage

This radio transmitter has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Le présent émetteur radio a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

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FCC Professional Installation Requirements (United States)

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

Installation Personnel

This product is intended for specific applications and must be installed by qualified personnel with knowledge of RF technology and applicable regulations. End users must not install, configure, or modify this product.

Installation Location Requirements

This device is intended for use in locations where children are not likely to be present and must not be installed in locations where children may be present. The product shall be installed in a location where the radiating antenna can be maintained at least **50 cm (19.7 in.)** from any person during normal operation to comply with RF exposure requirements.

External Antenna

Use only antennas approved by the applicant. Non-approved antenna(s) may generate unwanted spurious emissions or excessive RF transmit power, which could result in non-compliance with FCC limits and are therefore prohibited.

Installation Procedure

Refer to the User Guide for detailed installation instructions. **Warning:** Carefully select the installation location and ensure that the final output power does not exceed the limits specified by the applicable regulations. Violation of these regulations may result in severe federal penalties.

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Taiwan: National Communications Commission (NCC)

- Do not attempt to install or set up the 5G NR O-RU device yourself. Doing so may void the warranty. This device is factory-tuned; no customer calibration or tuning is required. Please contact technical support for installation assistance and for information regarding the settings of your 5G NR O-RU device.
- 本器材須經專業工程人員安裝及設定，始得設置使用，且不得直接販售給一般消費者。(This equipment must be installed and configured by a professional engineer before it can be used, and it must not be sold directly to general consumers.)
- 電信事業須設置基地臺者設置本基地臺前，應辦理基地臺登錄；已依電信法取得電臺架設許可者，亦同。本基地臺須經本會審驗合格取得電臺執照後，始得使用。(Before a tele-communications operator installs this base station, they must register it. This also applies to those who have already obtained a radio station installation permit under the Telecommunications Act. This base station may only be used after it has been certified by the Commission and a radio station license has been obtained.)
- 4800-4900MHz供行動寬頻專網於不得干擾合法通信且須忍受合法通信干擾之條件下使用 (For use with private mobile broadband networks, under the condition that it must not interfere with legal communications and must tolerate interference from legal communications.)
- 警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境。(WARNING: To avoid electromagnetic interference, this product should not be installed or used in a residential environment.)
- 本器材限使用下列天線 (This device is limited to using the following antennas):

Antenna Options for models: PS2400-7832CE & PS2400-7816CE						
Manu- facturer	Band	Model	Part Number	Antenna Type	Max Gain (dBi)	Impedance (Ω)
Pegatron	n78/ n48	WA-P- S6G3-05-003	1415- 0B8Y000	Sector	14 dBi (3400-3800 MHz)	50
PULSE	n78	BTEA00201 33G8S6A01	1415- 0A6Q000	Array	13.33 dBi (3400-3800 MHz)	50
WHAYU	n78	2F04X6B	1415- 0AFM000	Sector	13.5 dBi (3400-3800 MHz)	50

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1.1. Additional Safety Statements

Usage safety precautions

- Do not use this device where flammables or explosives are stored, for example, in a gas station, oil depot, or chemical plant. Otherwise, explosions or fires may occur. In addition, follow the instructions indicated in text or symbols in area used.
- Keep this device far from electronic devices that generate strong magnetic or electric fields, such as microwave ovens, satellite dish antennas, or large appliances.
- Before connecting and disconnecting cables, ensure that your hands are dry.
- To avoid electric shock, damage, and fire resulting from short-circuiting, do not use the product if wet, with wet hands, or while holding or drinking any liquids.
- Only insert relevant cables or devices into the ports, do not insert metal or other foreign objects.
- Do not place naked flame sources, such as lighted candles, on this device. Keep this device far from sources of heat and fire, such as a heater or a candle.
- Damage caused by user misuse or not following instructions are not covered by warranty.

Service information

Refer all repairs to qualified service personnel. Do not modify any part of this device, as this will void the warranty. Disconnect the power to this product and return it for service if the following conditions apply:

The product does not function after following the operating instructions outlined in this manual.

The product has been dropped or impacted and appears physically damaged.

Locate the serial number of the product and record this on your registration card for future reference. Also record the MAC address, located on the product sticker.

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Electrical safety precautions

- Read all instructional and cautionary documents before operating this device.
- Ensure that users are experienced with this communications equipment and can make mechanical settings or adjustments safely.
- Make sure enough electrical sockets are available and not over overloaded by unfused adaptors as this can cause fires.
- Ensure that no cables are left trailing in a manner that could pose a tripping hazard.
- Stop using this device immediately if it appears to be faulty or have damaged parts and have it checked by competent persons.
- This device must be grounded properly to earth. Failure to use properly grounded outlets may result in electrical shocks.

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2. Document Information

This document details the procedure for installing the component as stated. This document is intended for qualified personnel with a working knowledge of similar equipment.

2.1. Document revision history

Version	Date	Description
v0.1.0	2025/09/23	Initial version
v0.3.0	2025/12/15	Improvements to this document
v0.5.0	2026/02/12	Updated models and antenna options
v0.7.0	2026/06/04	Max antenna gain (p4) CE models and exposure distance (p5) External antenna info (p10) PS2400-7832CE/-7816CE bandwidth (p14,15)
v0.9.0	2026/07/22	Add Laser safety, update power supply rating p23, update SW section
v1.0.0	2026/07/29	Change tool size references from M to mm
v1.0.1	2026/08/17	Updated antenna peak gains (p26) and intro (p14)
v1.0.2	2026/08/19	FCC (p6)
v1.0.3	2026/09/03	FCC (p10)
v1.04	2026/09/08	FCC (p6), n48 Ant Gain (p15)

► Previous page number references will not be updated if pages are increased or decreased.

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3. Introduction

The Outdoor 5G NR FR1 4T4R Integrated Small Cell (ISC) is a compact, flexible solution designed to extend 5G coverage and capacity in enterprise, industrial, and commercial environments. Supporting 3GPP 5G NR Release 16 architecture, it can operate in either disaggregated deployments or as an all-in-one (AiO) unit integrating RU, DU, and CU functions.

Built to enable open, cost-efficient networks, the Small Cell supports standardized management and synchronization methods, ensuring seamless integration into private and public 5G systems. Its secure design incorporates both encryption and integrity protection, making it suitable for mission-critical and enterprise-grade applications.

This guide provides information and instructions for installing and configuring the Outdoor 5G NR FR1 4T4R Small Cell and is intended for use by trained installation personnel only.

3.1. Integrated Small Cell (ISC) models

Model	5G NR Band	RAM	HW Frequency Support (MHz)	Antenna Gain (dBi)	Support Bandwidth (MHz)
PS2400-7832Q	n78	32GB	3450 ~ 3550	12.54 dBi	20/40/60/100
PS2400-7816Q	n78	16GB	3450 ~ 3550	12.54 dBi	
PS2400-7832O	n78	32GB	3700 ~ 3800	12.54 dBi	
PS2400-7816O	n78	16GB	3700 ~ 3800	12.54 dBi	
PS2400-7832CES	n78	32GB	3400 ~ 3800	12.54 dBi	
PS2400-7832CE	n78	32GB	3400 ~ 3800	14.00 dBi	10/20/40/50/60/70/80/90/100
PS2400-7816CE	n78	16GB	3400 ~ 3800	14.00 dBi	
PS2400-4832	n48	32GB	3550 ~ 3700	13.90 dBi	10/20/40
PS2400-4816	n48	16GB	3550 ~ 3700	13.90 dBi	
PS2400-7932L	n79	32GB	4500 ~ 4700	12.4 dBi	100
PS2400-7916L	n79	16GB	4500 ~ 4700	12.4 dBi	
PS2400-7932U	n79	32GB	4600 ~ 4900	12.4 dBi	
PS2400-7916U	n79	16GB	4600 ~ 4900	12.4 dBi	

Common specs: Outdoor, DC power, External Antenna 4T4R, 5W TX.

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3.2. Specifications

► Specifications and appearance may change without notice.

Technology	
Standard	3GPP Rel.16
Functional Split	SA, All-in-one
RF Specification	n48/CBRS (3.55-3.7 GHz), Bandwidth: 10/20/40 MHz
	n78 (3.3-3.8 GHz), Bandwidth: up to 100 MHz
	n79 (4.6-4.9 Ghz), Bandwidth: up 100 MHz
Bandwidth	n48: 10/20/40 MHz
	n78: 10/20/40/50/60/70/80/90/100 MHz (80 MHz EA Version)
	n79: 100 MHz
Tx Output Power	5W (37 dBm) per chain / RF antenna port)
Active Users	128 connected UEs with 128 active UEs
	(Up to 256 active UEs through software upgrade)
Synchronization	IEEE 1588 PTPv2 (PTP/GPS), ITU-T G.8275.1/8275.2 profiles
Modulation	Max. 256QAM DL / 256QAM UL
Chipset	Qualcomm FSM20056 Sub-6 5G Modem Chipset
	NXP LX2160A 16-Core NPU Processor

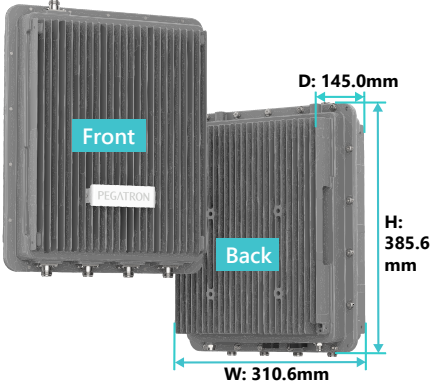
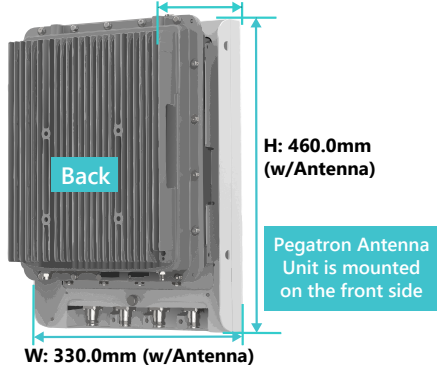
Physical & Environmental				
Ethernet Connection	1 x 10 GbE backhaul			
	1 x SFP+10 GbE (cage) backhaul			
Antenna	4 x N-type connectors on external antenna unit			
	1 x SMA for GNSS			
Ingress Protection	IP65			
Operating Environment	Temp: -40 to +55°C, Humidity: 5 to 95 % RH			
Dimensions (H x W x D)	385.6 x 310.6 x 145.0 mm	Weight	No Antenna	12 kg
Dimensions (H x W x D) (w/Antenna)	460.0 x 330.0 x 192.0 mm	Weight	n79	2.74 kg
		Weight	n78/48	2.87 kg
Mounting Options	Wall or Pole Mounting			
Power Input	DC in -48V			

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4. Package Contents

4.1. Integrated Small Cell (ISC)

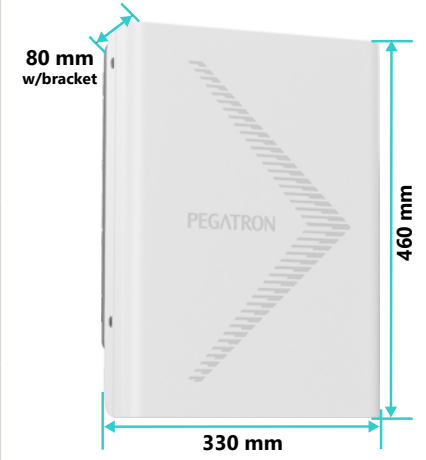
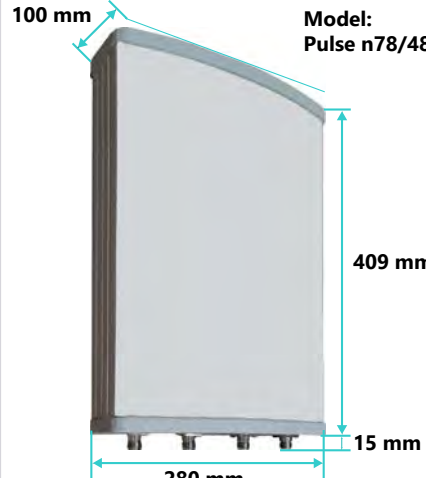
► Specifications and appearance may change without notice.

Parts	Qty	Image
<u>Integrated Small Cell (ISC)</u> <u>without Antenna</u> PN: PS2400-***	1	
<u>Integrated Small Cell (ISC)</u> <u>with Pegatron Antenna</u> - PN: PS2400-*** - PN: Pegatron Antenna Unit (see next page)	1	
<u>Power supply (optional):</u> Recommended specs: - DC -48V Power Adapter with 4-pin M25 Waterproof Connector - Input: 100-240V, 50/60Hz, 2.8A - Output: -48Vdc, 4.17A, 200W max	1	Note: If this product does not include a power supply, you must supply it with a UL-listed power supply suitable for use at max temp rating of +55°C and an operating altitude up to [5,000] m, with an output rating of -48 Vdc, 4.17 A. Please contact Pegatron if you need more information.

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4.2. Antenna options (page 1/2)

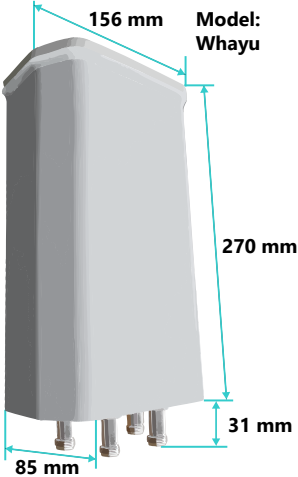
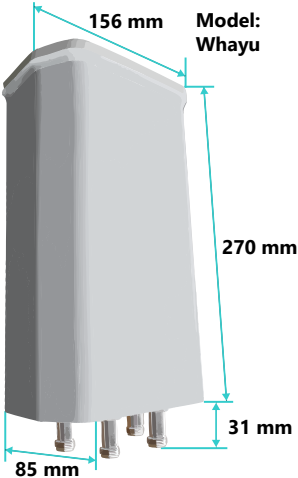
► Specifications and appearance may change without notice.

Parts	Image
<u>Optional Pegatron Antenna</u> • Connector type: 4.3-10 • Operating temp: -40 to +55°C • Humidity: 5 to 95% RH • Wind speed: Rated Max: 60 m/s • n79 Brand: Pegatron • n79 Model: WA-P-S6G3-05-004 / WA-P-S6G3-05-005 • n79 PN: 1415-0B90000 / 1415-0BHD000 • n78/n48 Brand: Pegatron • n78/n48 Model: WA-P-S6G3-05-003 • n78/n48 PN: 1415-0B8Y000	
<u>Optional External Sector Antenna n78/n48</u> • n78/n48 Brand: PULSE • n78/n48 Model: BTEA0020133G8S6A01 • n78/n48 PN: 1415-0A6Q000	Model: Pulse n78/48 

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Antenna options (page 2/2)

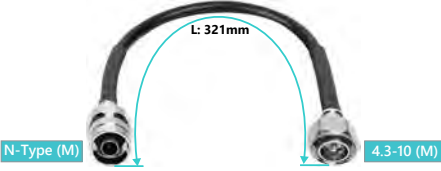
► Specifications and appearance may change without notice.

Parts	Image
<u>Optional External Sector Antenna n79</u> - n79 Brand: WHAYU - n79 Model: 2G04X6B - n79 PN: 1415-0ACP000	 Model: Whayu
<u>Optional External Sector Antenna n78/48</u> - n78/n48 Brand: WHAYU - n78/n48 Model: 2F04X6B - n78/n48 PN: 1415-0AFM000	 Model: Whayu

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Antenna options (page 2/2)

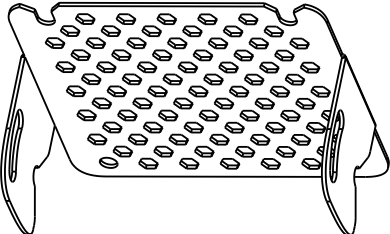
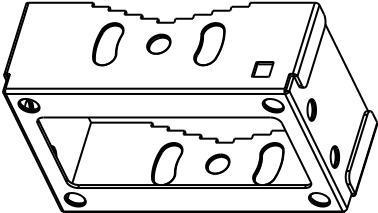
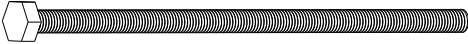
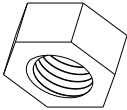
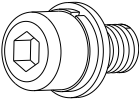
► Specifications and appearance may change without notice.

Parts	Qty	Image
<u>2. SFP housing for cable</u> • PN: Pipe SFP ► Waterproof IP67 after mated	x 1	
<u>3. RJ45 housing for cable</u> • PN: Pipe RJ45 ► Waterproof IP67 after mated	x 1	
<u>4. Waterproofing rubber mastic tape</u> • PN: TAPE 3M #2228 300cm	x 2	
<u>5. Waterproofing mastic tape</u> • PN: 3M #2166 60cm • (Called #2229 in some markets)	x 2	
<u>Optional N-Type Male Plug to 4.3/10 Male Plug RF cable assembly (321 mm)</u> (For Pegatron antenna) • PN: 1418-01RG000	x 4	

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4.3. Pole mounting kit (page 1/1)

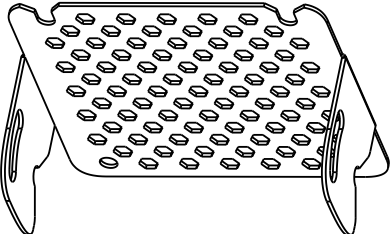
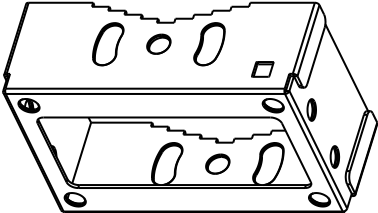
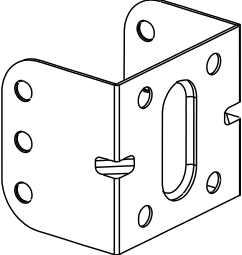
► Specifications and appearance may change without notice.

Parts	Qty	Image
<u>1. Adjustable case mounting plate</u> • PN: CASE_ADJUSTED	x 1	
<u>2. Pole clamp or Wall bracket (outer part)</u> • PN: POLE_BRACKET	x 2	
<u>3. Long bolts</u> • PN: M10_HEX_HEAD_230MM	x 4	
<u>4. Medium bolts</u> • PN: M10_HEX_HEAD_190MM	x 2	
<u>5. Washers</u> • PN: M10_SPRING_WASHER	x 8	
<u>6. Nuts</u> • PN: M10_HEX_NUT	x 6	
<u>7. Short screws</u> • PN: M8_SCREW	x 4	

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4.4. Wall mounting kit (page 1/2)

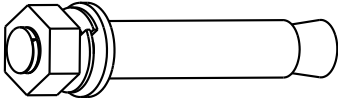
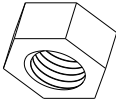
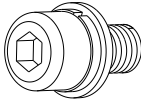
► Specifications and appearance may change without notice.

Parts	Qty	Image
<u>1. Adjustable case mounting plate</u> • PN: CASE_ADJUSTED	x 1	
<u>2. Pole clamp or wall bracket (outer part)</u> • PN: POLE_BRACKET	x 1	
<u>3. Wall bracket (inner part)</u> • PN: WALL_BRACKET	x 1	

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Wall mounting kit (page 2/2)

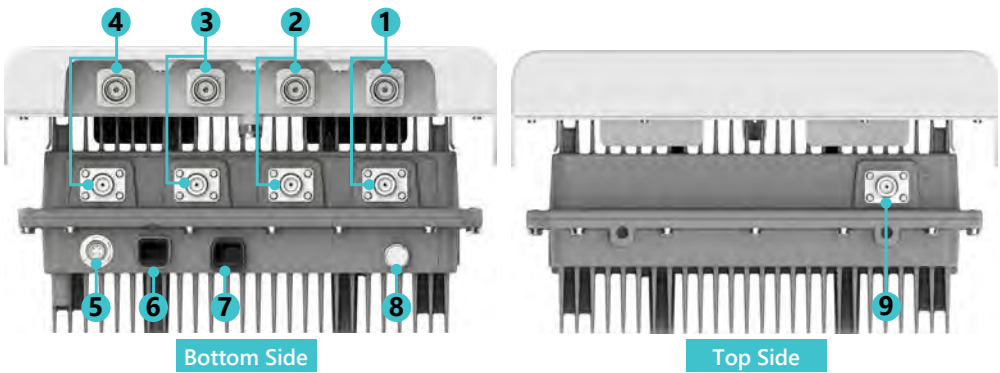
► Specifications and appearance may change without notice.

Parts	Qty	Image
4. Short bolts • PN: M10_HEX_HEAD_120MM	x 3	
5. Medium bolts • PN: M10_HEX_HEAD_190MM	x 2	
6. Anchor bolts • PN: M10_WALL_PLUG	x 4	
7. Nuts • PN: M10_HEX_NUT	x 5	
8. Short screws • PN: M8_SCREW	x 4	
9. Washers • PN: M10_SPRING_WASHER	x 10	

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5. Ports and Indicators

5.1. Bottom side parts description



#	Item	Description
1	Antenna ports	Port 1
2		Port 2
3		Port 3
4		Port 4
5	DC -48V power in	This product is intended to be powered by a Listed Power Adapter or DC power source marked, rated -48 Vdc, 4.17A minimum, max temp rating of +55°C.
6	SFP+: 10 Gbps	Default IP: 192.168.1.11, Network interface name: eth1
7	RJ45: 10 Gbps	Default IP: 192.168.0.10, Network interface name: eth0
8	Pressure venting port	Automatically relieves pressure when needed. No user interaction required.
9	GNSS input (SMA connector)	For external RF cable and GNSS (GPS) antenna

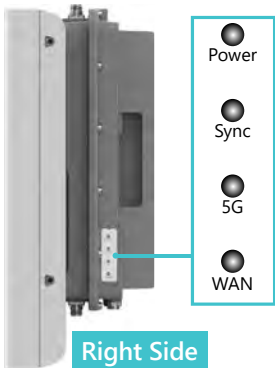
Class 1 Laser Product



SFP+ Port Warning: Only use certified Class 1 optical fiber transceiver modules. After installation, this product is considered a Class 1 laser product.

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5.2. Right side LED status indicators



- 1. [Power] Off: No power source, **Green**: Power source good

#	State	LED	Sync	5G	WAN	Notes
2	Boot Loader fail	  	Off	Off	Off	System Booting
3	Boot Loader pass	  				System Booting
4	Boot Kernel Sys check fail	  				System boot Fail
5	Boot Kernel Sys check pass	  				System boot Good
6	Boot FSM / L1 fail	  	Amb			FSM / L1 bring up Fail
7	Boot FSM / L1 pass	  	G flash			FSM / L1 bring up Pass
8	Boot GPS / PTP fail	  	Amb			GPS / PTP Timing Sync Fail
9	GPS / PTP Done	  	G flash			GPS / PTP Timing Sync Locked
10	Time sync Locked / Hard sync	  	Green			Amb
11	CU booted fail	  		Amb		CU Bring up Fail
12	CU booted pass	  		G flash		CU Bring up Good
#	State	LED	Sync	5G		Notes

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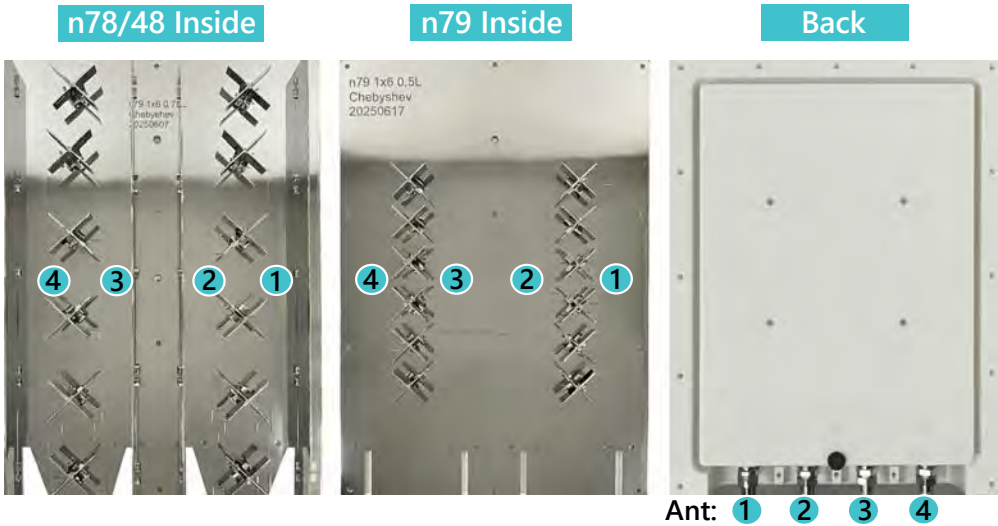
5. Ports and Indicators - LED

#	State	LED	Sync	5G	WAN	Notes
13	5gc connection fail		Grn	Amb	Off	CU connect to 5GC failed (Same as CU Bring up fail)
14	5gc connection pass			Grn flsh		CU connect to 5GC OK (Same as CU Bring up OK)
15	DU booted fail or DU Down					DU bring up fail (ISC gNB Activation Failed) or DU down
16	DU booted pass			Grn		DU bring up OK (ISC gNB Activated & 5G in service)
17	Ethernet Backhaul (WAN port) failed		Off	Off	Amb	WAN port (backhaul) failed
18	Ethernet Backhaul (WAN port) Link Up				Grn	WAN port(Backhaul) Link up connection OK
19	Ethernet Backhaul (WAN port) Link Down				Off	WAN port(Backhaul) Link up connection
20	Ethernet TX RX / Cell Transmitting		Green		Grn flsh	Data I/O transmitting (UE Data Transmission)
21	FW Upgrading pass		Green flashing			FW uploading in progress
22	FW Upgrading failed		Amber flashing			FW upgrading Failed
23	FW Upgrade complete pass		Green			FW upgrading Completed... Preparing to reboot
24	FW Upgrade complete failed		Amber			FW upgrading
25	Time sync hold over during operation		Grn / Amb alternating		Grn flsh	Time Sync at Hold Over stage during operation
26	Time sync hold over failed		Amb flash		Grn	Time Sync hold over timeout exceed threshold
#	State	LED	Sync	5G	WAN	Notes

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6. External RF Antenna Design

6.1. Antenna module appearance



Antenna module specifications

Item	n79	n78/n48
Frequency	4400 to 4900 MHz	n78: 3300 to 3800 MHz n48: 3550 to 3700 MHz
Antenna type	Cross dipole array	
Return Loss	> 10 dB	
Isolation	Meets -20 dB	
S11	Meets -10 dB (4500-4900 MHz)	Meets -10 dB (3400-3800 MHz)
Efficiency	Meets -3 dB (4500-4900 MHz)	Meets -3 dB (3400-3800 MHz)
Peak Gain	12.4 - 13.9 dBi (4500-4900 MHz)	13.1 - 14.4 dBi (3400-3800 MHz)
3-dB Beamwidth	Vertical plane: 18° Horizontal plane: 51° to 58°	Vertical plane: 13° Horizontal plane: 60° to 66°

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7. ISC Installation

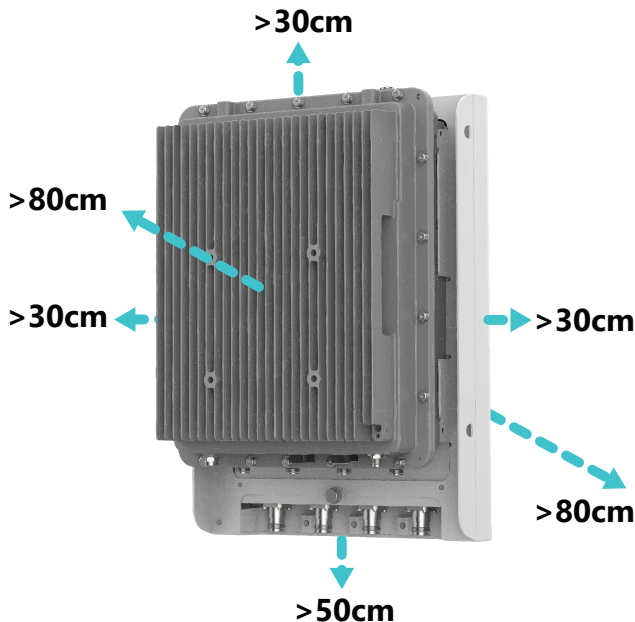
7.1. Installation requirements

Before installation, assess the strength and reliability of the support structure based on the total weight of the installed equipment and cables.

Space requirements for installing a single ISC

This ensures normal operation and provides sufficient space for maintenance.

- **Ground installations:** Maintain a minimum clearance of 50 cm from the ground, with a recommended distance of 70 cm or more.
- **Non-ground installations:** Refer to the provided diagram for the recommended spacing requirements.



WARNING: To ensure proper air circulation and effective heat dissipation around the ISC, do not install it in indoor or outdoor cabinets (such as enclosed camouflage boxes) or in closed rooms without active cooling systems. Such conditions can lead to overheating and may cause the ISC to malfunction.

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7.2. Handling & installation

Before installation, transport the ISC to the site in its packaging. Avoid collisions during transport, handling, and installation. Wear clean gloves and avoid touching connectors or ports with bare hands or dirty gloves.

Installation procedure

1. Pre-installation checklist

- Ensure you understand the required safety standards, power requirements, and necessary tools.
- Verify that all necessary parts and components are available or identified for procurement.

2. Site preparation

- Survey the installation site, including support structures.
- Collect all required parts and tools.
- Implement necessary safety measures at the site.

3. Mounting the ISC

- Use the mounting kit to securely attach the ISC to a pole, wall, or a stable support frame.

4. Grounding

- Connect the grounding cable from the ISC to an appropriate earth conductor.

5. Antenna Connection

- Attach the antenna cables from the ISC to a certified external antenna.
- Ensure waterproofing of the antenna cable connectors on both the ISC and the external antenna. The steps are shown at the end of this section.

6. Fiber and Ethernet Connections

- Install the fiber cable to the SFP+ port and connect it to a fiber termination box.
- Install an Ethernet cable to connect the RJ45 LAN port to an Ethernet switch.

7. Power Supply

- Connect the provided power cable to an appropriate power source, depending on the ISC model.
- Once powered, the unit’s power light will turn on automatically.

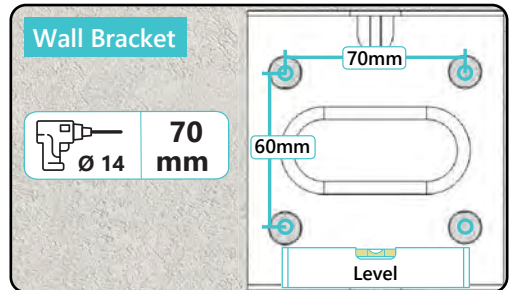
WARNING: This device must be grounded using a green and yellow striped copper wire with either a single core of at least 16 AWG or a multicore of at least 14 AWG.

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5 PORT
5 LED
6 ANT SPEC
7 INST REQ
7 WALL FIX
7 POLE FIX
7 GND
7 ANT CONN
8 CONN TAPE
9 CON NECT
10 FW UP
10 WEB GUI
10 FW UP 2
11 MAN AGE

7.3. Wall mounting (page 1/2)

Step 1: Drills holes for the bracket

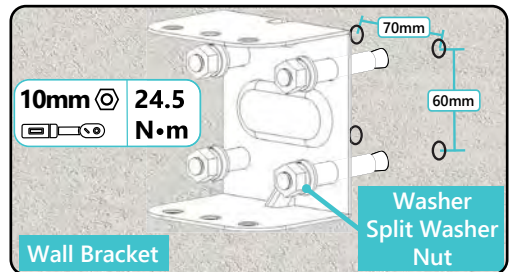
Align WALL_BRACKET to a flat surface with a level tool and trace four screws. Drill four holes with a 14 diameter bit to depth of 70mm.



Step 2: Install anchor bolts & bracket

Secure the WALL_BRACKET with:

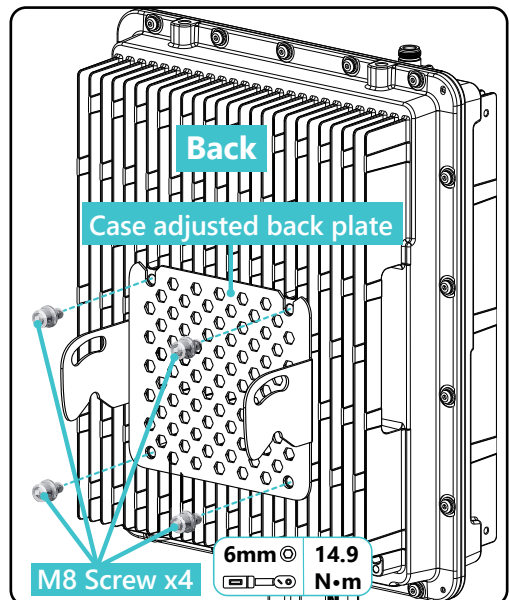
- M10_WALL_PLUG (x4)
- M10_WASHER (x4)
- M10_SPLIT_WASHER (x4)
- M10_NUT (x4)



Step 3: Secure case back plate

Secure the CASE_ADJUSTED back plate onto the ISC back with:

- M8_SCREW (x4).



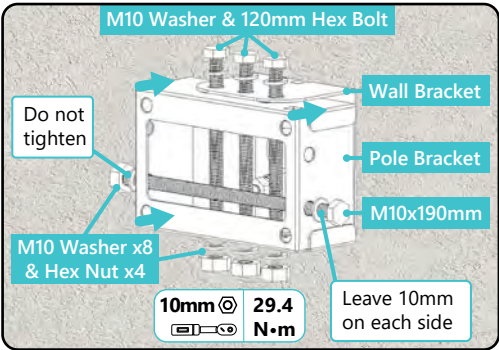
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7.4. Wall mounting (page 2/2)

Step 4: Assemble wall mount

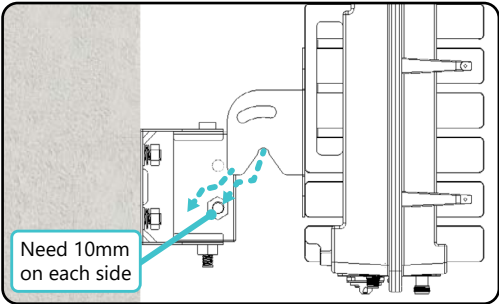
Secure the POLE_BRACKET to the WALL_BRACKET with:

- M10_HEX_SOCKET_120MM (x3)
- M10_HEX_SOCKET_190MM (x1)
- M10_SPRING_WASHER (x8)
- M10_HEX_NUT (x4)



Step 5: Hang the Small Cell

Latch the CASE_ADJUSTED plate onto the loose bolt on the wall mount assembly.

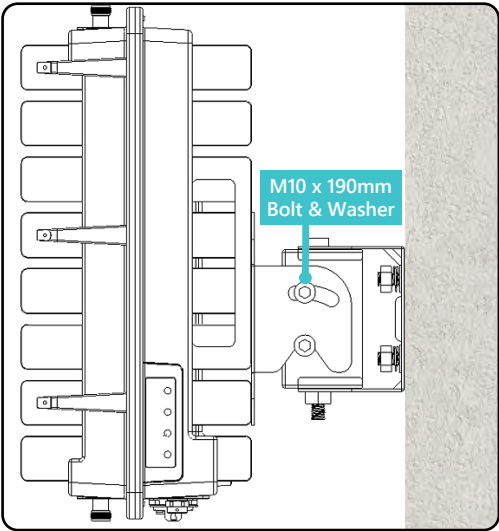
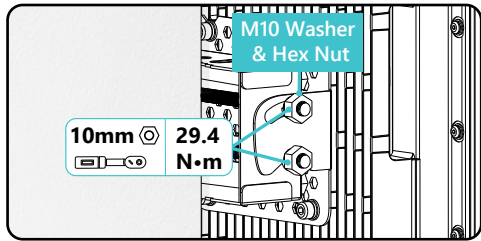


Step 6: Secure the Small Cell

Secure CASE_ADJUSTED plate with:

- M10_HEX_SOCKET_190MM (x1)
- M10_SPRING_WASHER (x2)
- M10_HEX_NUT (x1)

Tighten the two M10_HEX_NUT on the other side.



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4 KIT WALL
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5 LED
6 ANT SPEC
7 INST REQ
7 WALL FIX
7 POLE FIX
7 GND
7 ANT CONN
8 CONN TAPE
9 CON NECT
10 FW UP
10 WEB GUI
10 FW UP 2
11 MAN AGE

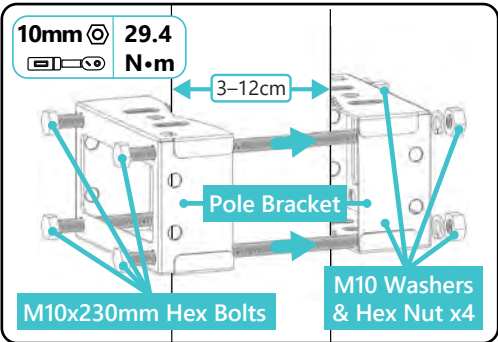
7.5. Pole mounting (page 1/2)

For diameter 3-12cm (1.18-4.72in)

Step 1: Mount clamps to pole

Align the POLE_BRACKET with another POLE_BRACKET, and secure with:

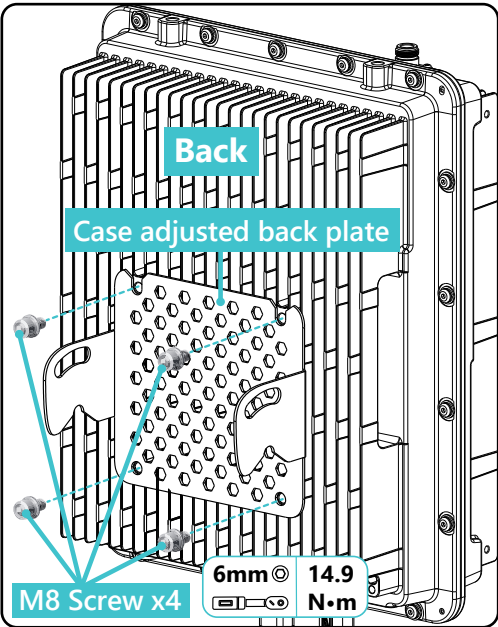
- M10_HEX_SOCKET_230MM (x4)
- M10_SPRING_WASHER (x4)
- M10_NUT (x4)



Step 2: Secure case plate to back

Secure the CASE_ADJUSTED plate onto the back with:

- M8_SCREW (x4)



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