

* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FEE * See full T&C's on our website

SIM Preparation

1 Ensure you read all instructions before continuing.

The SIM cards provided need activated before use. Follow the instructions provided or visit our telecoms website for more details:

www.aesglobaltelecom.com

Different networks use different APNs, and these must be set correctly for full operation. See Details overleaf on setting a new APN.

Site Wiring

2

iGate Enclosure
(Install at height to allow the internal antenna to find signal.)

DC Power Cable
(1.0mm² – 8m MAX)

Keep PSU as close to the unit as possible & Do not share PSU with other devices.

Note: PSU not supplied.
Can be purchased separately. 24v DC 1.2A peak.

SITE SURVEY



Please read this entire manual before installing this product. A full comprehensive manual is available on our website for additional information.



Ensure there is good 4G signal on site. 4G units will fall back to 3G service in some countries.



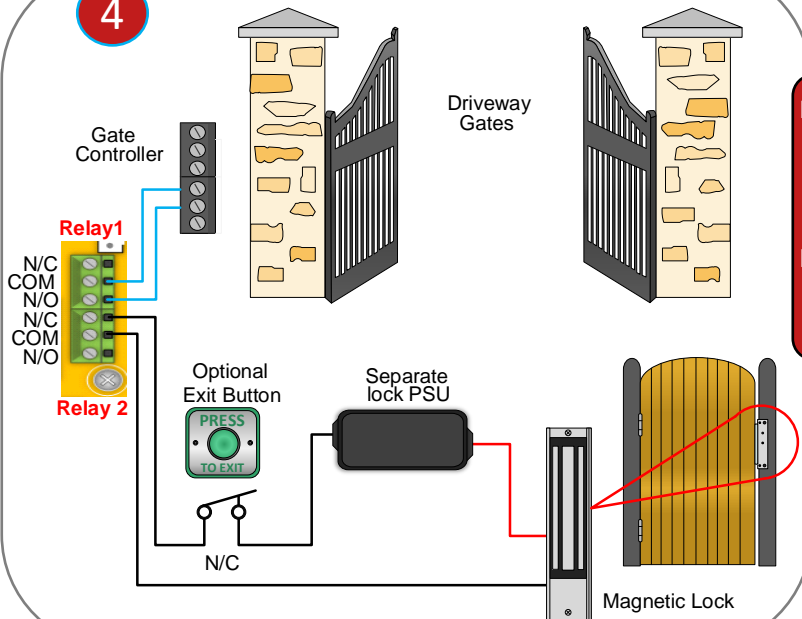
Set up on a bench in workshop **BEFORE** going to site. Program the unit in the comfort of your work bench and call technical support should you have any questions.



This product requires a regular voice & SMS SIM card. **Do not use a data only SIM, as this will not work in the unit.**

Relay Connections

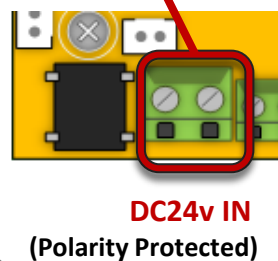
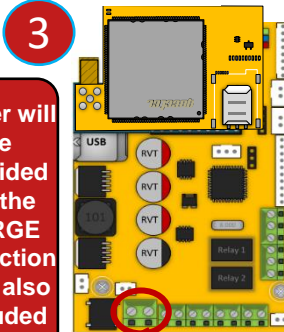
4



Power

3

Power will be provided via the SURGE protection PCB also included



POWER CABLE

KEEP POWER SUPPLY AS CLOSE AS POSSIBLE.

TIP: Most technical calls received are due to installers using CAT5 or alarm cable to power the unit.

NEITHER are rated to carry enough power! (1.2amp peak)

Please use the following cable:

- Up to 2 metres (6 feet) – Use minimum 0.5mm² (18 gauge)
- Up to 4 metres (12 feet) – Use minimum 0.75mm² (16 gauge)
- Up to 8 metres (24 feet) – Use minimum 1.0mm² (14 gauge)

Power Consumption:
Standby = 80mA
Peak = 1.2A

INGRESS PROTECTION



We recommend sealing all entry holes for prevention of insects that can cause issues with a risk of shorting out components.



To maintain the IP55 rating please follow the sealing instructions included. (also available online)



LIGHTNING PRONE AREAS **MUST** USE SURGE PROTECTION FOR POWER SUPPLY!

See overleaf for more PCB details

Turn Over



EXTRA RESOURCES

NEED MORE ASSISTANCE?

+1 (321) 900 4599

SCAN THIS QR CODE TO BE BROUGHT TO OUR RESOURCES PAGE.

VIDEOS | HOW-TO GUIDES | MANUALS | QUICK START GUIDES

iGate Prime 7 4G - Advanced GSM Switch

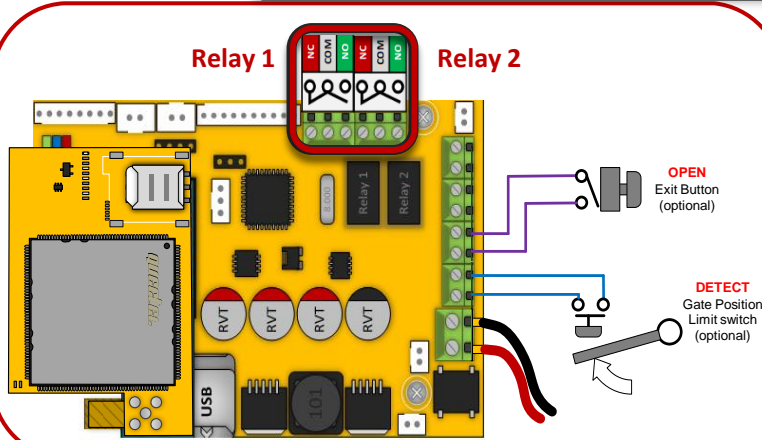


STILL HAVING TROUBLE?
Find all of our support options such as Web Chat, Full Manuals, Customer Helpline and more on our website:
WWW.AESGLOBALUS.COM

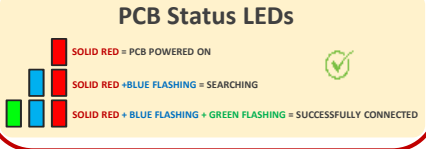
* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FEE * See full T&C's on our website

Wiring Connections

Tip: All main connections are pre-wired. Below are optional wiring additions for 3rd party controllers.

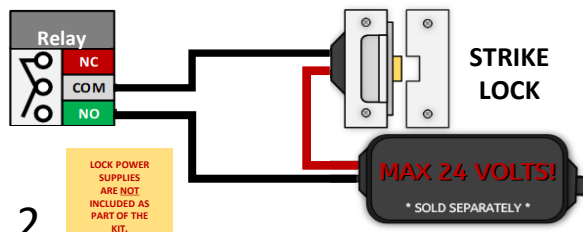


See included instructions on how to wire together.

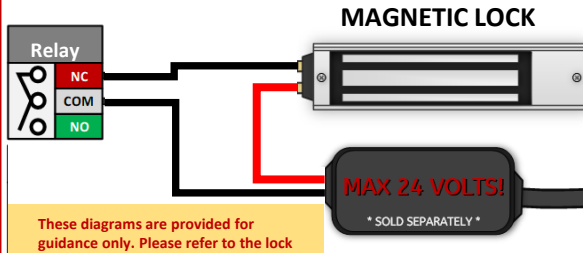


Note: The supplied enclosures are fully sealed. You will need to drill a hole in the wall of the enclosure then secure each half of the supplied cable gland into place to ensure the waterproof seal is intact. (ensure you do not drill the hole larger than the gland supplied)

ALTERNATIVE WIRING EXAMPLE

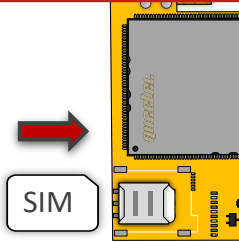


ALTERNATIVE WIRING EXAMPLE

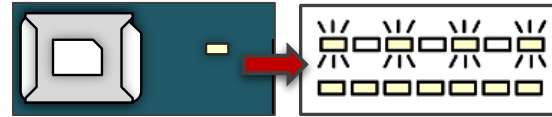


SIM ORIENTATION

ALWAYS ensure the system is switched **OFF** when adding or removing your SIM card and ensure the orientation is correct.



CONNECTION TO NETWORK



MODEM LED INDICATOR

Quick Flashing = **Standby** | Constant ON/OFF = **Searching**

CHANGE APN (for VoLTE / 4G services)

The system will arrive with an AES SIM and will be pre-programmed with the APN to suit. If you wish to use a different SIM then the correct APN must be set for full operation.

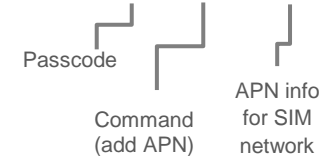
Check with your network provider for the correct APN for 4G data. Once you have confirmed the APN enter it in place of 'APNinfo' in an SMS to the intercom.

via SMS

Ensure the PCB is powered on and connected to the network with a GREEN flashing LED.

Then send the below text as an SMS to the intercom Sim number. A power reboot is required after the 'OK' reply message is received back.

9999#97APNinfo#



EXTRA RESOURCES

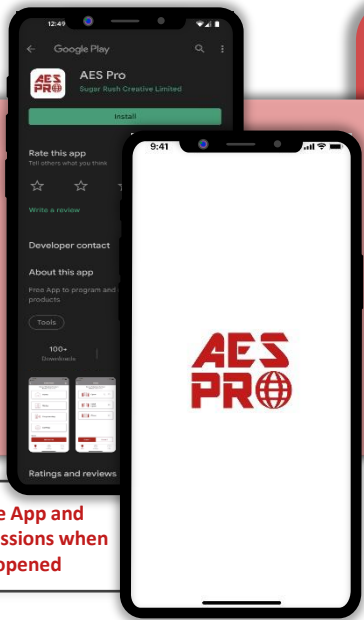
Search for 'APN Flyer - PRIME'

* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FEE * See full T&C's on our website

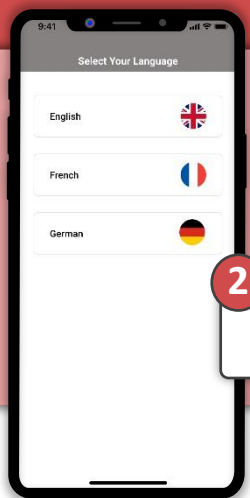


AES PRO App

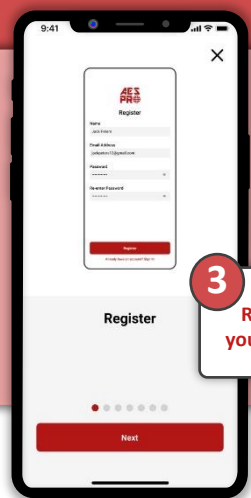
1 Download the App and Accept all permissions when the app is opened



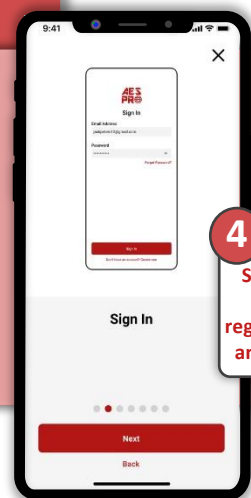
Getting Started



2 Choose your language

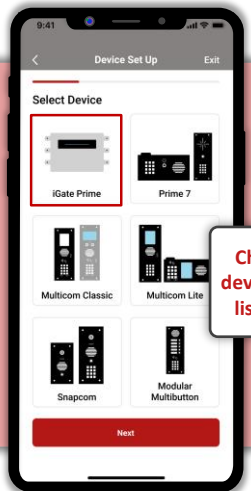


3 Register your details

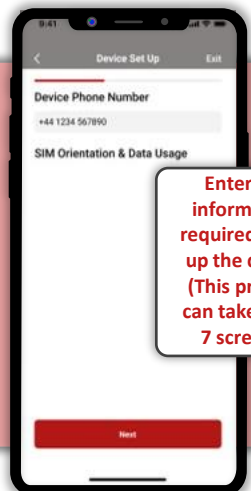


4 Sign in using previously registered email and password

Device Setup

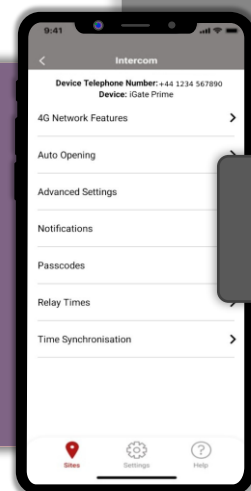


Choose your device from the list provided

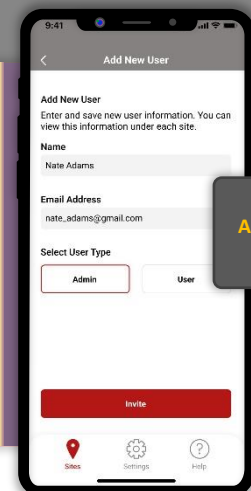


Enter the information required to set up the device (This process can take up to 7 screens)

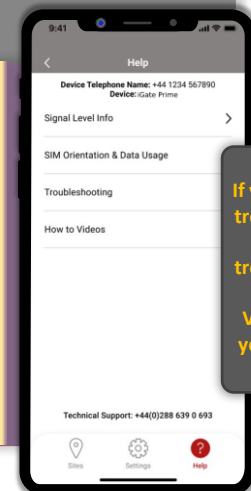
Additional App Configuration/Help



Customise Advanced Features (more on this on pg4)



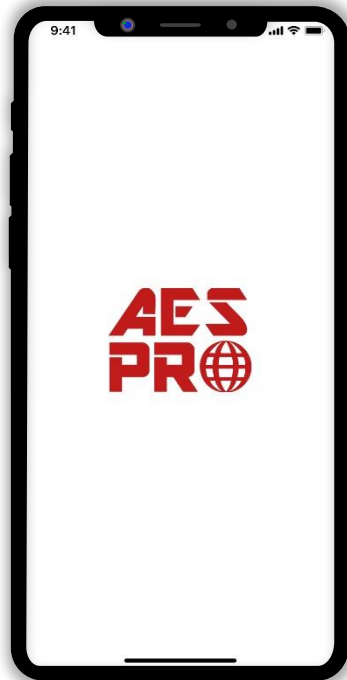
Add additional app users



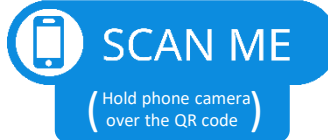
If you are having trouble the help section has troubleshooting and How to Videos to help you resolve the problem

* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FEE * See full T&C's on our website

Advanced Programming Setup



See our YouTube Channel for full app walkthrough



or search "AES Global"

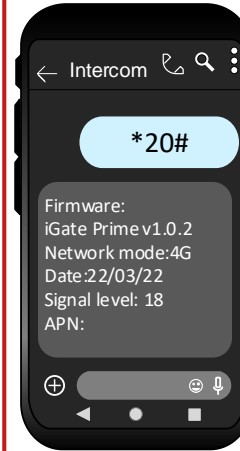
Note: You need to send the SMS message created by the app to the intercom SIM number and receive the 'OK' reply for correct programming.



EXTRA RESOURCES

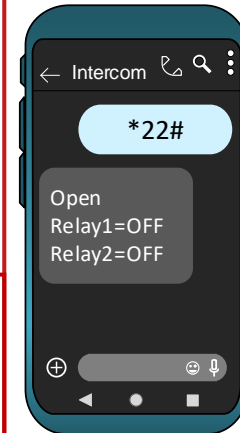
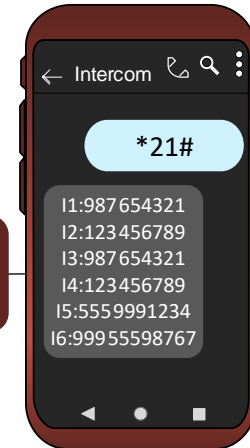
This QR code will take you to our resource page where you can find the datasheet for your intercom.

INFORMATION (SMS Reply Examples)



SIGNAL STRENGTH
Will reply with signal range 1-31. Min signal level should be 10 on 4G systems

STORED NUMBERS
I=Dial IN Caller ID number.
N = Another message to follow
E = End of messages

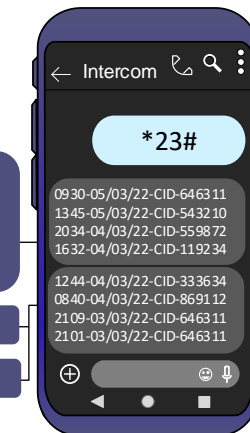


RELAY STATUS
OPEN - Shows status of the input terminals called DETECT - Can be used with a limit switch. Relay status shown to check if any relay is latched.

ACTIVITY LOG
Use this to see who used the intercom and when. Which pin codes were used, who used caller ID, who answered the call.
TTT: Time and date is in international military format.

Last 6 digits of caller ID user phone number

Last 2 digits of keypad code used



0930-05/03/22-CID-646311
1345-05/03/22-CID-543210
2034-04/03/22-CID-559872
1632-04/03/22-CID-119234
1244-04/03/22-CID-333634
0840-04/03/22-CID-869112
2109-03/03/22-CID-646311
2101-03/03/22-CID-646311

* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FEE * See full T&C's on our website

Using App for End User to Manage Gates

SWITCH MAINTENANCE

Bug ingress is a common issue in unit failures. Ensure that all components are sealed accordingly and check occasionally. **(Do not open the panel in the rain / snow unless correctly equipped to keep the internals dry. Ensure the unit is securely closed after maintenance)**

SIM MAINTENANCE

If using a pre-pay casual SIM card it will need topped up occasionally. It is recommended to advise the home owner / end user to register the SIM card on the provider's web site if available. Most major networks allow registration of card payment details for an auto top up feature, which means they will automatically top up your intercom when the balance runs low or in some cases, they offer a low balance reminder to be sent if they do not wish the auto top up feature.

ENVIRONMENTAL INFORMATION

The equipment that you bought has required the extraction and use of natural resources for its production. It may contain hazardous substances for the environment. In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems. Those systems will reuse or recycle most of the materials of your end-of-life equipment.

The crossed-bin symbol marked in your device invites you to use those systems.



If you need more information on the collection, reuse and recycling systems, please contact your local or regional waste administration. You can also contact AES Global Ltd for more information on the environmental performances of our products.

WARRANTY

Please note, by installing this product, you are accepting the following warranty terms:

1. The manufacturer's warranty is a "return to base" 2 year warranty from date of manufacture. This means that any suspected defective components or items are returned to the manufacturer's agent for investigation and diagnosis and returned at the cost of the customer.
2. The warranty does not cover, nor is the manufacturer or agent responsible for any of the following whatsoever: Storm damage, lightning or surge damage, flooding, accidental damage, vandalism or deliberate damage, un-explained corrosion or unusually harsh environments, failure of telephone networks, future un-interopability between the product and network providers which cause malfunction due to changes implemented by the phone providers after manufacture of the product, or that which is outside of control of the manufacturer (e.g. 2G, 3G switch off, removal or inability to obtain VOLTE service), and damage due to inaccurate installation.
3. The manufacturer in no way accepts liability for any of the following incurred due to a product defect: Cost of attending site, inconveniences, labor rates, time lost, loss to or damage to property, security breaches, late payment clauses or breaches of any contracts between the installer and the client.
4. This is a professional install product only. The product is a component of an overall system. Therefore, it is the responsibility of the installer to certify the safety and compliance of the overall finished system. As soon as this product is fixed to another item, or connected to another third-party device, then the product has been modified, and compliance with local regulations in the country of install is strictly the responsibility of the installer.
5. Re-stocking fees may apply to items returned that are found to be non-defective. Complete units will also attract a re-stocking fee if returned for credit, regardless if a defect is discovered or not. Re-stocking fees may vary depending on the condition of the item being returned, and whether it can be determined as in brand new condition. The warranty terms do not entitle customers to an automatic full refund. For more details on returns procedures and re-stocking fees, contact the agent.
6. Items with physical signs of surge damage are not covered by warranty. Items with visible signs of surge damage will only be covered by warranty if photographic evidence is provided from site, showing surge protection has been installed.

Full warranty terms and conditions available upon request to AES Technical Department.

Basic SMS Strings to Manage Gates

Function	CMD String (SMS)
Manually trigger, latch or unlatch relay by SMS. X = Relay Function. (1 = Trigger relay 1, 2 = Latch relay 1, 3 = Unlatch relay 1) (4 = Trigger relay 2, 5 = Latch relay 2, 6 = Unlatch relay 2)	*1234#X#
Check Intercom Status (min signal level required for full operation is 10)	*20#
Check Stored Numbers I = Dial In number. N = Another message. E = End of messages.	*21#
Check Relay Status	*22#
Events Log (check last 20 events, most recent first) CID = caller ID used;	*23#
Add Caller ID Number (max 250) (14 digits maximum)	9999#72number#
Change Relay Time Time = 1-9999 seconds	9999#50time#
Factory Reset (Default Everything)	9999#999#

i-Heat



Did you know AES Global also has a GSM central heating control unit available the *i-heat*. Control your central heating and hot water with a touch of a button using our simple to use app! For more information about i-Heat visit www.iheatglobal.com

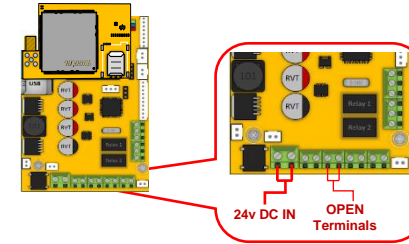


* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FEE * See full T&C's on our website

TROUBLESHOOTING

Symptoms caused	Problem/error	Solution
No LEDs on.	The unit will not power up.	Check power supply voltage at intercom is 23.4v DC or more. Cable length from PSU to intercom should be less than 8 meters and in 1.0mm2 cable for this distance. See cable guide on page 1 of this manual. Check the fuse.
No green CPU light	The unit powers up but is not showing network reception or will not respond to SMS.	<p>This means the unit is not able to detect the network for some reason.</p> <ul style="list-style-type: none"> -Power off the unit, remove the SIM and check it in a mobile phone to verify it can make a call and has calling credit if it is a Pay As You Go SIM. -Disable any PIN code request if active on the SIM card. -Check the SIM is a standard voice capable SIM. If you are unsure, contact your SIM card provider to verify. -Check the reception is medium or good. Poor reception is not sufficient. -Power off, remove the SIM, use fine sand paper to lightly sand the SIM pads and contacts on the GSM unit, lightly bend the contacts upwards so that they make better contact with the SIM and try again. -Change to an external antenna. <p>External Antenna Details</p> <ul style="list-style-type: none"> -Ensure the cable does not have too many sharp bends. -Check the height of the antenna and make sure it is not inside a metal enclosure. -Check correct power cable size for cable length from PSU. Refer to manual for guidelines
The caller ID function does not work.	Incorrect programming or poor signal	<p>If your number is a private or number withheld, then it will not work.</p> <ul style="list-style-type: none"> -Ensure the number is programmed as you would normally dial it from another phone. - Ensure you have adequate GSM signal at the intercom by sending *20# as a text.

Reset / Default Unit



Note: Performing this process will remove all current programming including saved users & access codes.

- 1) Power off the unit. (approx 60 secs)
- 2) Make a link across the terminals marked OPEN.
- 3) Switch on power
- 4) After several seconds the relay will click.
- 5) The unit will then clear memory and be defaulted
- 6) Remove the link and wait around 20 seconds.

FCC ID : 2ALPX-PRIME7-4GQA

EUT : CellCOM Prime 7 4G

Test Model : PRIME7-PX-IMP-K-PED/4GA

Additional Model No. PRIME7-IMP-PED/4GA, PRIME7-PX-IMP-PED/4GA, PRIME7-IMP-K-PED/4GA, PRIME7-PX-IMP-K-PED/4GA, PRIME7-AB/4GA, PRIME7-PX-AB/4GA, PRIME7-ABK/4GA, PRIME7-PX-ABK/4GA

Grantee: Advanced Electronic Solutions Global LLC

This device complies with Part 15 of 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.

Output power listed is ERP below 1GHz for Part 22 and EIRP above 1GHz for Part 24. RF exposure compliance is addressed for 1.1310 and 2.1091 MPE limits. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.

End Users must be provided with transmitter operation conditions for satisfying RF exposure compliance.



This product is not a complete product until fully installed. It is therefore considered a component part of an overall system. The installer is responsible to check that the end installation complies with local regulatory requirements. This equipment forms part of a "fixed installation".

STILL HAVING TROUBLE?
Find all of our support options such as Web Chat, Full Manuals, Customer Helpline and more on our website:

WWW.AESGLOBALUS.COM

+1 (321) 900 4599