

AES Global LITE-ARC-RB-US CellCOM Lite GSM Intercom **Instruction Manual**

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AES Global LITE-ARC-RB-US CellCOM Lite GSM Intercom



Product Information

CellCOM Lite 4G - GSM Intercom

The CellCOM Lite 4G – GSM Intercom is a communication device that allows you to speak with visitors at your gate or entrance from a remote location using a 4G network. The intercom is pre-programmed with the APN for the Tracfone network, but you can set a new APN if you wish to use a different network. The device requires a regular voice and SMS SIM card, and it needs to be earthed to qualify for the manufacturer's warranty.

The intercom has solid red status LEDs that indicate that the PCB is powered on, solid red and blue flashing LEDs that indicateit's searching for a network, and solid red, blue flashing, and green flashing LEDs that indicate it's successfully connected to a network. The product has an IP55 rating, and it's recommended to seal all entry holes to prevent insects from causing issues.

Product Usage Instructions

- 1. Read all instructions before continuing.
- 2. Activate the SIM cards provided before use by following the instructions provided or visiting the telecoms website.
- 3. Use a power cable that can carry enough power, and keep the power supply as close as possible to the intercom.
- 4. Ensure that the intercom is earthed in the following states to qualify for the manufacturer's warranty: FL, LA, MS, AR, OK, MO, AL, IL, KY, TN, IN, KS, SC, GA, IA, TX, OH, NC, NE, MD, WV, VA, DE. Use surge protection for power supply in lightning-prone areas.
- 5. Perform a site survey before installing the product to ensure there is a good 4G signal on site. The intercom requires a regularvoice and SMS SIM card, and it needs to be set up on a bench in a workshop before going to the site.

- 6. All main connections are pre-wired, but optional wiring additions for 3rd party controllers are available.
- 7. Use the sealing instructions included to maintain the IP55 rating and prevent insects from causing issues.
- 8. If you encounter any issues, find all support options, such as web chat, full manuals, customer helpline, and more on the AES Global website. You can also call +1 (321) 900 4599 or scan the QRcode provided to access resources such as videos, how-to guides, manuals, and quick start guides.

SIM Preparation

Ensure you read all instructions before continuing.

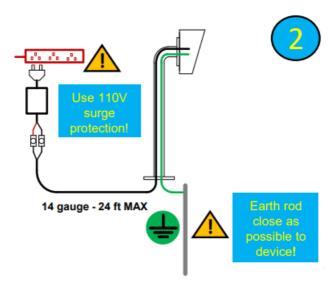
The SIM cards provided need activated before use. Follow the instructions provided or visit our telecoms website for more details:

www.aesglobaltelecom.com

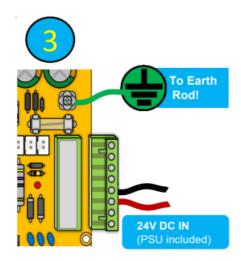
The system will be pre-programmed with the APN for the Tracfone network.

If you wish to use a different network then the correct APN must be set for full operation. See Details overleaf on setting a new APN.

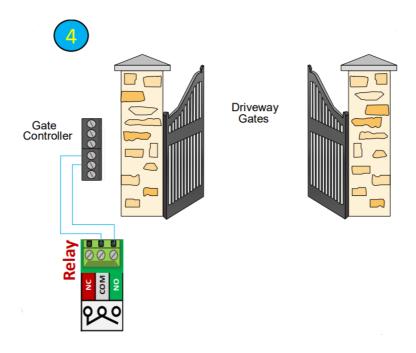
Site Wiring



Power



Relay Connections Example



Earthing

This product MUST be EARTHED in the following states in order to qualify for manufacturers warranty



LIGHTNING PRONE AREAS MUST USE SURGE PROTECTION FOR POWER SUPPLY

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.

In order to make voice calls on a 4G system and get optimum service, your SIM and provider will need to offer VOLTE support (Voice over LTE).



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 Calling Out = 300mA

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)

NEED MORE ASSISTANCE?

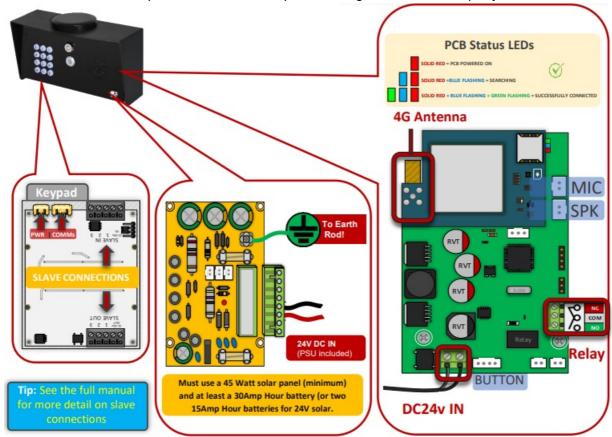
+1 (321) 900 4599

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

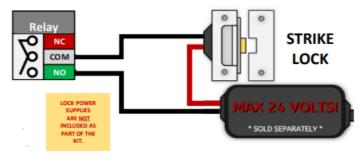


Wiring Connections

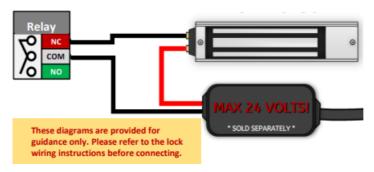
Tip: All main connections are pre-wired. Below are optional wiring additions for 3rd party controllers.



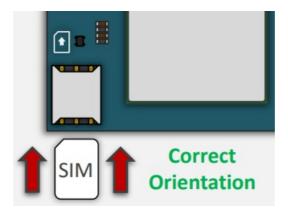
ALTERNATIVE WIRING EXAMPLE



ALTERNATIVE WIRING EXAMPLE

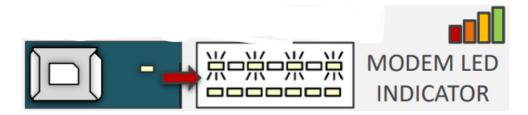


SIM ORIENTATION



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

CONNECTION TO NETWORK



Quick Flashing = Standby | Constant ON/OFF = Searching

CHANGE APN (for VoLTE / 4G services)

The system will be pre-programmed with the APN for the Vodafone network. If you wish to use a different network then the correct APN must be set for full operation.

Check with your network provider for the correct APN for 4G data.

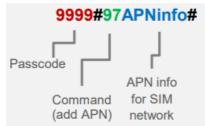
Once you have confirmed the APN enter it in place of 'APNinfo' in an SMS to the intercom.

via SMS

(if connected to network)

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

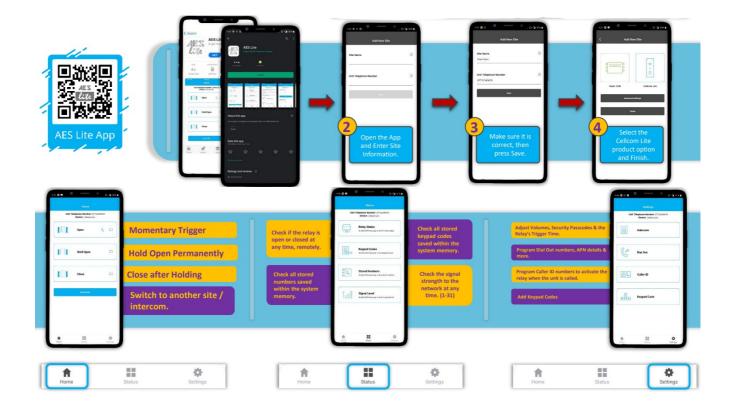
Then send the below text as an SMS to the intercom Sim number. A power reboot is required after the 'OK' reply message is received back.



1. Download the programming/user app. 'AES Lite' (QR Codes

Tip: Use the i symbol for detailed information.

Note: The app will be grey until you select your product type and 'Finish' initial setup.



Advanced Programming Setup



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. .

INFORMATION

Function	CMD String (SMS)		
Check signal level, Firmware version,			
Network Mode & Date/Time stamp	*20#		
(1-31 – min required = 10)	20#		
Check stored Visitor callerID.			
N = Next Message to follow; E = end of messages	*21#		
Check Relay Status			
Must have completed the 'Personalize' settings for this to respond	*22#		
Events Log			
Check last 20 events, most recent first	*23#		
Check stored Visitor Prox IDs	1234*25#		

Function	CMD String (SMS)
Enable Latching via DTMF.	
(If latching is not required on dial out). X = 0 or 1 (0 = Disable, 1 = Enable)	9999#95X#

Using App for End User to Manage Gates



Receiving A Call and Opening Gates / Door

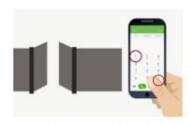
Visitors can press the call button, which will initiate a call from your intercom to the designated phone numbers which will have been programmed by your installer.



1. Press call button



2. Intercom calls up to 4 phones in sequence



Answer the call, speak to visitor, and grant access with phone keypad.

Output 1

This is usually main gate/door.

Press 1# to open

Press 2# to hold open

Press 3# to un-hold

Output 2

This can be pedestrian gate, lights or other. Press 4# to open Press 5# to hold open Press 6# to un-hold

Basic SMS Strings to Manage Gates

Function	CMD String (SMS)			
Manually trigger,latch or unlatch relay by SMS.				
Relay funct ion.				
(1= Trigger relay, 2 = Lat ch relay, 3 = Unlat ch relay)	1234#X#			
Check Intercom Status				
(min signal level required for full operation is 10)	*20#			
Check stored numbers				
O = dial out number. I = dial in number.				
N = Another message. E = end of message.				
Check Relay Status	*22#			
Check Stored Keypad Codes	1234#25#			
Store dialling out numbers (3 MAX)				
X = sequence number dialled 1-3 number = phone number (max 14 digit s)	9999#11Xnumber#			
Change Relay time				
Time = 1-99 seconds	9999#50ti me#			
Add Caller ID number (max 25)				
(max 14 digits long)	9999#72number#			
Add Keypad Code (max 25)				
Code = 4 digit s. Time = 1-10 seconds Use 0 seconds for lat ching code	9999#811code#ti me#			
Set APN for connecting to 4G network.				
APN Name = Networks APN	0000#07ADNiaa #55#			
(e.g. 9999# 97wap.vodaf one.co.uk#)	9999#97APNna me#			
Factory Reset (Default Everything)	9999#999#			

MAINTENANCE

INTERCOM 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 correctlyequipped 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, unexplained corrosion or unusually harsh environments, failure of telephone networks, future un-interoperability 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.
- 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.

TROUBLESHOOTING

Symptoms cau sed	Problem/error	Solution
No LEDs on.	The unit will not pow er up.	Check power supply voltage at intercom is 23.4v DC or more. Cable I ength from PSU to intercom should be less than 25 feet and in 14 gau ge for longer distances. See guide. Check the fuse.
No green CPU li ght	The unit powers up but is not showing n etwork reception or will not respond to S MS.	A. This means the unit is not able to detect the network for some reas on.
		-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, co ntact your SIM card provider to verify.
		-Check the reception is medium or good. Poor reception is not sufficie nt.
		-Power off, remove the SIM, use fine sand paper to lightly sand the SI M pads and contacts on the GSM unit, lightly bend the contacts upwar ds so that they make better contact with the SIM and try again.
		-Check antenna is connected and does not have too many sharp bends on the antenna cable.
		-Check the height of the antenna and make sure it is not inside a meta I enclosure.
		 Check correct power cable size for cable length from PSU. Refer to manual for guidelines
Call is going to voicemail if not answered.	The unit calls the firs t number, but voice mail comes on befor e it can ring the	Decrease the calling time as per programming instructions.
	second number.	
The caller ID fu nction does not work.	Incorrect programmi ng or poor signal	If your number is a private or number withheld, then it will not work.
		-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.

There is no audi o from the gate, but the person a t the gate can h ear ok.	This can be due to I ow reception or excessively long po wer cables or under spec power cables.	-Check reception level by *20#. -Change SIM card if necessary, to another network which may have b etter coverage. -Purchase a high gain antenna. This may also be caused by a defective microphone, water on a micro phone from a sprinkler for example, or dirt/insects blocking the microphone hole. If reception is optimum and the problem persists, contact your supplier or installer.
The audio qualit y that can be he ard on the remo te telephone is poor or hummin g (buzzing).	Poor reception or un derspec power cabl es.	A small amount of GSM buzz can be considered normal on GSM inter coms, but not so much that causes inability to hear the person speakin g. This is a symptom of poor reception. Try above steps on checking a nd improving reception. Consider fitting an external high gain antenna. Move the antenna further away. Remove any short bends in the antenna. Ensure the spare antenna cable is not rolled up inside the call station.
The trigger keys do not work wh en the intercom calls a phone.	Poor GSM signal at the gate or issue wit h gate control PCB	A. Check if you can hear the relay clicking at the gate when the keys a re pressed during a call. If it can be heard, then the system is working, check wiring between the relay and the lock or gate panel. If the relay s do not make a clicking sound, then check this feature on a different mobile cell phone or landline. If it works on a different phone, check the e settings on the phone in question under DTMF tones. Failure of DTMF tones to operate correctly is also a symptom of low reception or insufficient power cabling. Check steps above on improving reception or addressing the power problem. -Also check that the relays are not already latched with the *22# command. If they are latched, they need unlatched before the trigger keys will work. -Check if it works by SMS. Try latching a relay then use the status butt on to check if the relay is latched. If that works, problem could be the phone being used, or low signal strength at the intercom.

Reset / Default Unit

- 1. Power off the unit. (approx 60 secs)
- 2. Power on the intercom and press the call button twice. (there is a 5 second setting mode for this, beginning with a single beep and ending with a double beep).
- 3. Switch on power
- 4. The unit will beep four times.
- 5. The unit will then clear memory and be defaulted

Note:

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

FCC ID: 2ALPX PRIME7 4GQA

EUT:

CellCOM Prime 7 4G Test Model : PRIME7 PX IMPK PED/4GA

Additional Model No. PRIME7

IMP PED/4GA, PRIME7 PX IMP PED/4GA, PRIME7 IMPK PED/4GA, PRIME7 PX IMPK 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

Documents / Resources



AES Global LITE-ARC-RB-US CellCOM Lite GSM Intercom [pdf] Instruction Manual LITE-ARC-RB-US CellCOM Lite GSM Intercom, LITE-ARC-RB-US, CellCOM Lite GSM Intercom, Lite GSM Intercom, Intercom

References

- Region | AES Global Ltd | AES Gate Intercoms | United Kingdom
- AES Global Telecom AES Global Networks
- AES Global LLC | Gate Intercoms | Florida

Manuals+.