

Robustel GSM Modem **Installation & User Guide**



Aidcall operates a policy of continual product improvement and reserves the right to modify the specification of its products.

If any variation to the details in this document are suspected please contact Aidcall's Technical Support.

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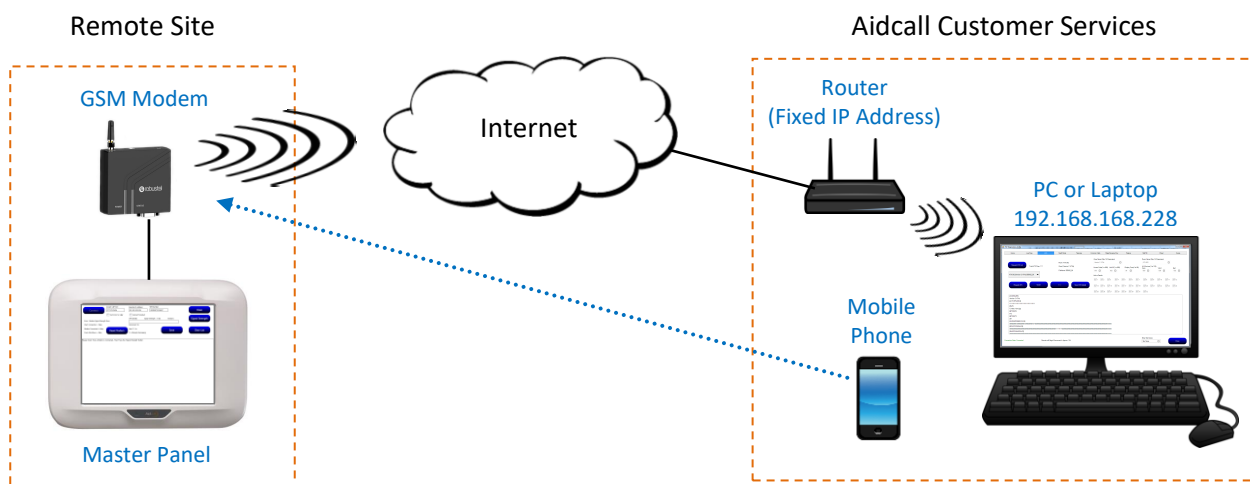
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1. PRODUCT OVERVIEW

The GSM Modem allows an Aidcall Customer Service Engineer to connect to a Touchsafe Pro Nursecall panel from a remote PC to perform on line diagnostics.

The GSM Modem will normally be connected to the Master Panel as this will have a copy of all the data used to run the system and a full set of system logs. *Please note the Modem only allows the site data to be viewed remotely, no changes can be made to the panel setup via the Modem connection.*

TYPICAL SETUP



In order to successfully run a session with a remote panel, the remote panel must be configured to allow a connection to a fixed IP address. This will normally be the address of an ADSL router and the address will be supplied by the Internet Service Provider. The panel connects to the fixed IP address which should then have been set up to forward the information through to the required PC.

A modem connection can only be established by ringing the panel from a recognized mobile phone number previously setup in the panel configuration, alternatively the site Manager will have to press the Connect button on the panel when requested by the Customer Services Engineer.



The connection is made on Port 8080 and therefore data arriving on this port should be allowed through the Firewall for the required address.



*The Robustel Modem is compatible with Touchsafe Pro Panel V4.00a software onwards. To check the Panel software version press and hold the **"Supply: OK"** button in the bottom right hand corner of the Main Screen for 6 seconds then release.*

2. IMPORTANT SAFETY INSTRUCTIONS

	Read and understand these instructions before use. Keep these instructions for future reference.
	Take care when working on step ladders during installation or service.
	Do not disassemble this product when connected to a power source.
	No user serviceable parts inside. Refer all servicing to qualified service personnel.
	Only use the manufacturer's Power Supply (Model No. GT-41062-1812) supplied with the Modem.
	This product should be located at least 2 metres away from other electronic equipment. Failure to provide this separation may result in reduced radio range.
	Do not locate this product above a radiator or other heat source.
	Do not expose to direct sunlight.
	Do not submerge in water and do not use in damp or humid conditions.
	Do not expose this product to dripping or splashing water. Liquids can cause a failure and/or a fire hazard.
	Clean with a hard-surface disinfectant wipe or a damp cloth and a non-abrasive cleaning product. Polish with a dry duster. DO NOT use a wet cloth.
	Avoid using harsh, abrasive or corrosive cleaning agents or detergents (e.g. scouring powders, bleaches, polishes, etc.) when cleaning this product.
	At the end of its life this product should be disposed of and recycled in accordance with the environmental regulations. See the Regulatory Information in section 3 below.

3. REGULATORY INFORMATION

	We declare this product complies with the relevant UK legislation on condition that it is used in the manner intended, and in accordance with the current installation standards and/or the manufacturer's recommendations. A copy of the full UKCA Declaration of Conformity is available on request from Robustel.
	We declare this product complies with the relevant European legislation on condition that it is used in the manner intended, and in accordance with the current installation standards and/or the manufacturer's recommendations. A copy of the full CE Declaration of Conformity is available from Robustel.
	This symbol on the product indicates it is classed as Electrical or Electronic Equipment and should not be disposed of with other commercial waste at the end of its working life. The Waste of Electrical and Electronic Equipment (WEEE) Directive (2012/19/EU) has been put in place to recycle products using the best available recovery and recycling techniques to minimise impact on the environment, treat hazardous substances and avoid increasing landfill. For product disposal please contact your supplier and check the terms and conditions of the purchase contract and ensure this product is not mixed with other commercial waste for disposal.

4. MAINTENANCE & CARE

For peace of mind and to ensure your system is maintained to the highest standard Aidcall recommend an annual maintenance contract. This will provide vital assistance in times of need from a nationwide team of trained Service Engineers who specialise in wireless Nursecall systems.

A preventative maintenance visit (PMV) is also available from Aidcall, this covers the replacement of all batteries, a full system test, software updates (where applicable) and a Service Certificate.

For more information on Maintenance Contract Packages and PMV's please contact our customer services team on 01670 357431 or visit our website; <https://www.aidcall.co.uk/maintenance/>

ANNUAL MAINTENANCE

The GSM Modem does not require any regular maintenance. If the Modem shows signs of external damage it should be replaced immediately by a Service Engineer. Products needing repair can be returned via the website; <https://www.aidcall.co.uk/returns-procedure/>

5. GSM MODEM PARTS

The GSM Modem parts are identified below;

Aidcall Part No. ZNC520

Power Supply & Adapters



PSU Connector



Antenna



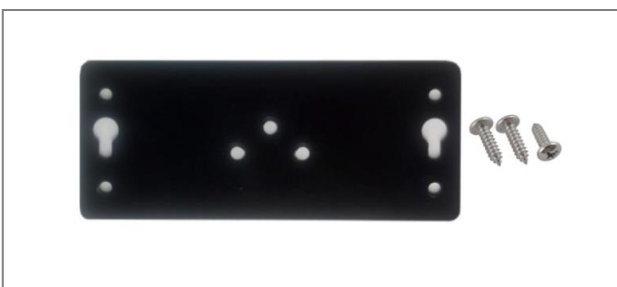
Modem



Data Cable (5m)



Wall Mounting Bracket

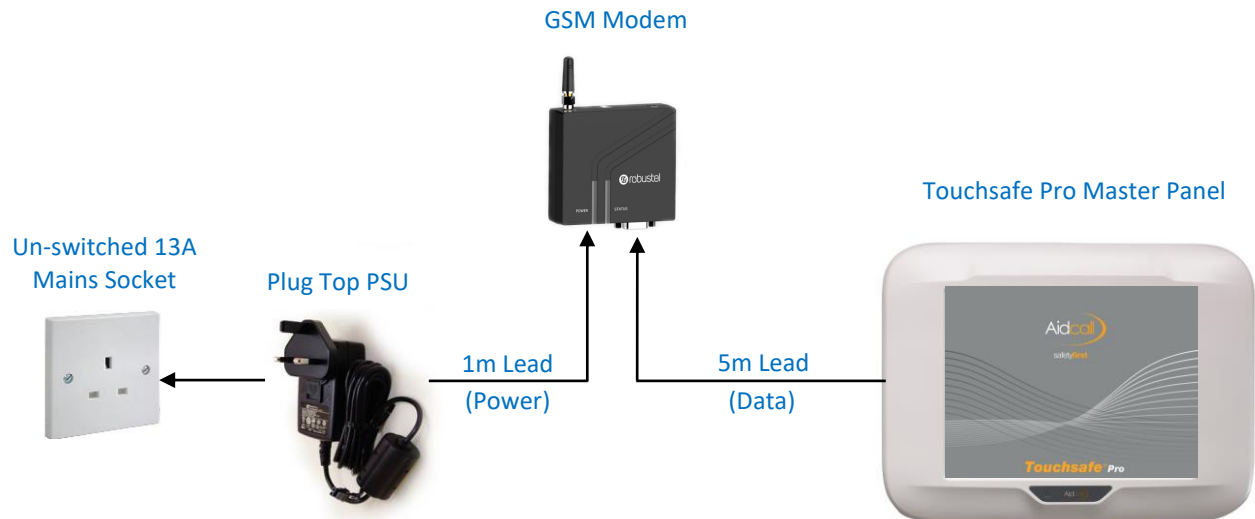


IMPORTANT: the GSM Modem does not contain a standby battery so remote diagnostics cannot be performed during a mains failure.

6. GSM MODEM INSTALLATION

The GSM Modem requires connection to the mains supply via a local un-switched 13A mains socket and a hardwired data connection to the Touchsafe Pro Master Panel.

The Modem is suitable for indoor locations only – NEVER fit externally.



IMPORTANT: AVOID LOCATING THE MODEM...



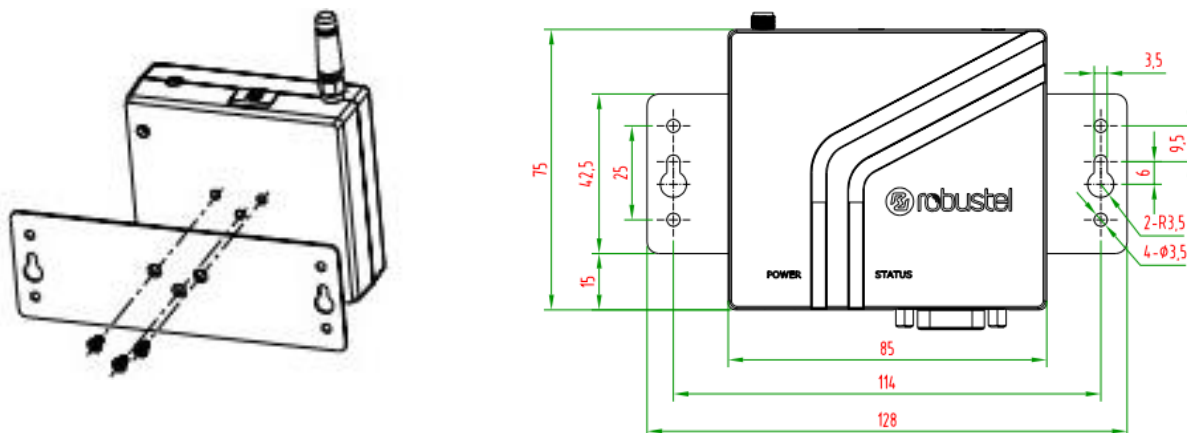
For more details refer to the Modem manufacturers user guide which can be downloaded from:
<https://www.robustel.com/en/documentation/>



IMPORTANT: construction materials such as foil backed plasterboard, reinforced concrete or stone walls may reduce signal strength and effect performance.

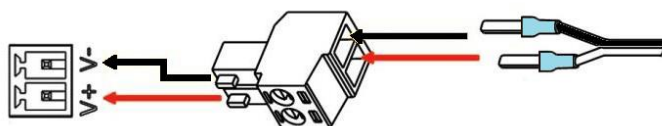
6. GSM MODEM INSTALLATION

Use the 3 x pan head self-tapping Phillips screws supplied to fix the wall mounting bracket to the rear face of the modem. Then use drywall screws to mount the Modem on the wall.



PSU CONNECTION

The Modem is reverse polarity protected, but always refers to the drawing below to connect the Power Adapter through the 2-way screw terminal correctly.



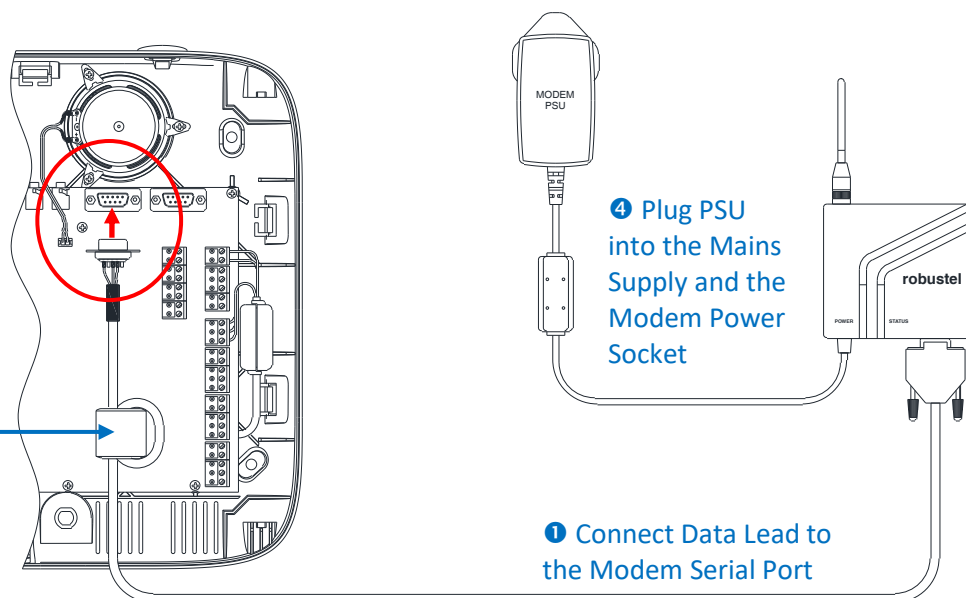
Connect the **WHITE** wire to the **V+** terminal and **BLACK** wire to the **V-** terminal.

DATA CONNECTION

1. Plug shrouded 9 pin "D" plug end of the Data Cable into the Modem and finger-tighten the jack screws.
2. Route the Data Cable to the Touchsafe Pro Master Panel and plug the un-shrouded 9 pin "D" plug into CON15 (as shown below). The 5m Data Cable can be cut-down in length but DO NOT extend any longer.
3. Ensure the ferrite is inside the Panel.
4. Plug the PSU adapter into the Mains supply and the Modem.

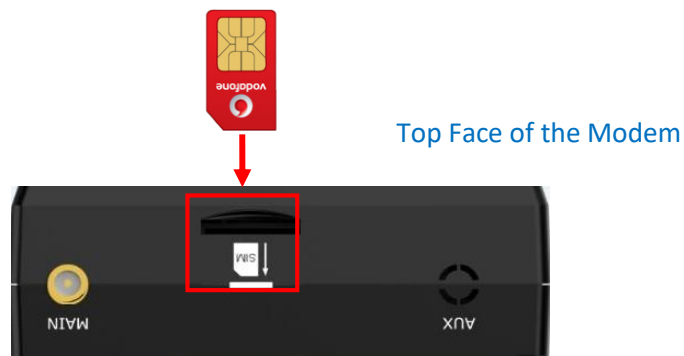
② Connect Data Cable to CON15 on the Main PCB located inside the Touchsafe Pro Master Panel

③ Ensure the Ferrite is inside the Touchsafe Pro Panel and not in contact with the PCB



7. INSERTING/REMOVING THE SIM CARD

Insert the SIM Card (Aidcall Part No. W01825) into the Modem SIM socket as shown below...



INSERT SIM CARD

1. Make sure the Modem power supply is disconnected.
2. To insert SIM card, press the card with finger until you hear a click.

REMOVE SIM CARD

1. Make sure the Modem power supply is disconnected.
2. To remove SIM card, press the card with finger until it pops out, and then take out the card.

NOTES

1. Do not touch the metal card surface.
2. Do not bend or scratch the card.
3. Keep the card away from electricity and magnetism.
4. Make sure the Modem is off before inserting or removing the card.

8. TOUCHSAFE PRO PANEL SETUP

Go to the Touchsafe Pro Master Panel (ID 1), Logon as an Engineer or Manager and select the **GSM Modem** option...

Figure 1

The configuration screen is shown here.

See below for details on setup.

Note: this only needs to be set on the Master Panel (ID 1) to which the Modem is connected.

Press the **Save** button then **Close** to exit.

Accept Call From: If the telephone number of the engineer is entered into this test box and an engineer makes a mobile call to the panel, the number will be compared to the incoming call and if there is a match, the panel will initiate an IP connection to the Remote IP Address.

Remote IP Address: This is the number of the Router connected to the internet in the initiators building. By default this is set to 82.69.230.11. If required, this can be changed to an IP address chosen by the Engineer. If the IP address has been changed and Aidcall are required to connect, then the user should select the "Connect To Aidcall" checkbox. This will override the IP address shown in the box above it. In the event that a different entry is required, it is possible to add a file to the "Site" directory on the SD card called "AidcallIP.txt". This file can be set to the required IP address e.g. 10.23.10.45. If this is done, checking the "Connect To Aidcall" checkbox will result in an IP connection being made to the address contained within the file.

SIM Number: This is the number supplied with the SIM card that is inside the GSM Modem and must be entered manually from the documentation supplied with the SIM. This is the number that the Engineer will call to initiate a connection.

APN Details: The unit should be supplied with a CSL Dual Comm SIM. If this is not the case, the APN details of the SIM should be entered in the "APN Details" box. The information above the APN Details box indicates the signal strength of the GSM Modem coverage with respect to the GSM network.

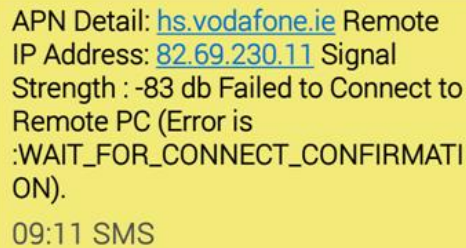
Sessions: This will normally be set to 1 when a connection is in progress. Failure to close a connection in a controlled manner may result in this value being incremented each time a connection is made and not closed down in a controlled manner. If this number reaches 32 the unit will not connect until the modem has been powered down and back up or the Reset button has been pressed.

If the Modem is detected by the panel, the **CONNECT** button will be enabled and the Signal Strength will show a valid value. As an alternative to an Engineer dialling into the panel, the **CONNECT** button can be pressed and that will start a connection.

8. TOUCHSAFE PRO PANEL SETUP

Text Error To Caller: If the panel cannot make a connection to the remote IP address, an SMS can be sent to the mobile number entered in the “Accept Call From” field.

This will indicate the IP address that it is attempting to connect to, the signal strength and the stage of the connection at which the failure occurred, e.g.



APN Detail: hs.vodafone.ie Remote
IP Address: 82.69.230.11 Signal
Strength : -83 db Failed to Connect to
Remote PC (Error is
:WAIT_FOR_CONNECT_CONFIRMATI
ON).
09:11 SMS

Signal Strength: The signal strength level can be interrogated by pressing the **SIGNAL STRENGTH** button. The GSM modem should be positioned to ensure that it has the strongest mobile signal strength. A test call should be made to ensure that the system is fully functional.

Clear List: Text can be cleared from the list box by pressing the **CLEAR LIST** button. The screen image in Figure 1 above shows the message presented when no modem is connected. The other information shows the state of the connection during the call sequence such as Errors and connection states.

Save: The settings can be saved to a file so that they are available the next time the GSM is used by pressing the **SAVE** button.

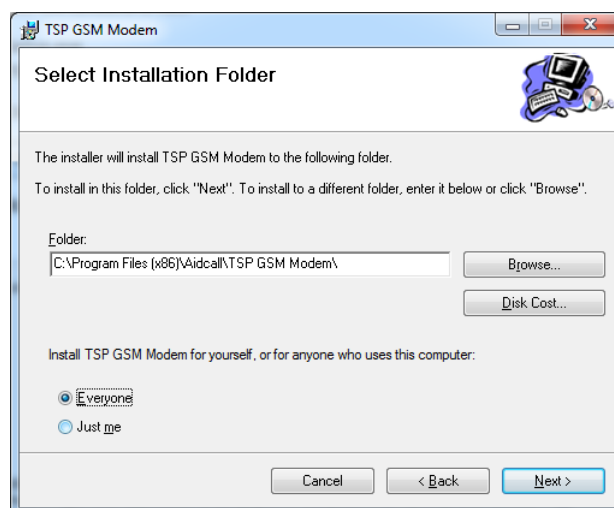
Disconnect In: This shows a countdown period. If no communication is received during a connection from the remote user for approx 2 minutes, the panel will start to disconnect from the remote PC. Every time a new command is received from the remote user, the timer is refreshed. In the event that the Manager of the site wants to close the GSM connection then the **RESET MODEM** button should be pressed to perform a controlled shutdown. The connection is closed once the message COMPLETE is shown below the CONNECT button.

9. PC SOFTWARE INSTALLATION

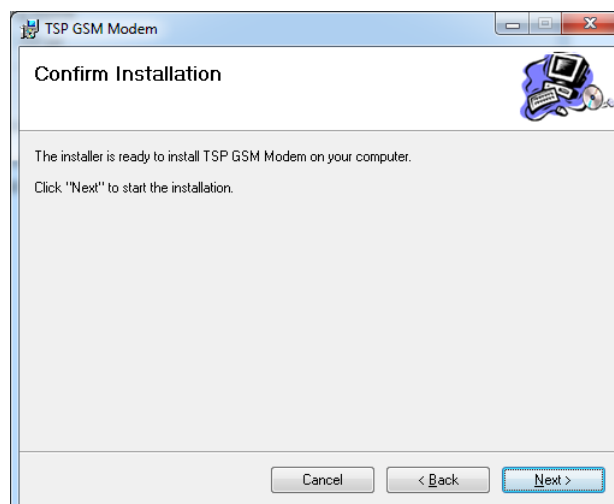
The Windows software installer will consist of 2 files; [Setup.exe](#) and [TSP GSM Modem.msi](#). Double Click on the [Setup.exe](#) file and follow the install process...



Click Next...

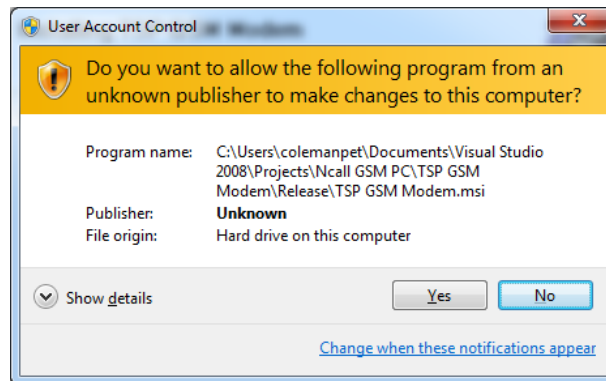


This will install the application into the Program Files directory as shown above. The example here shows that it will be installed for all users. Click Next...

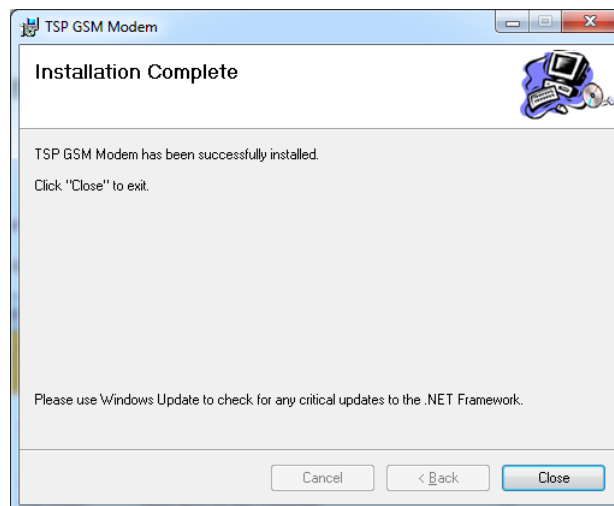


9. PC SOFTWARE INSTALLATION

You may be prompted to allow the install of the application...



Click Yes. The installer will run and upon completion the following message will be displayed;



Click Close.

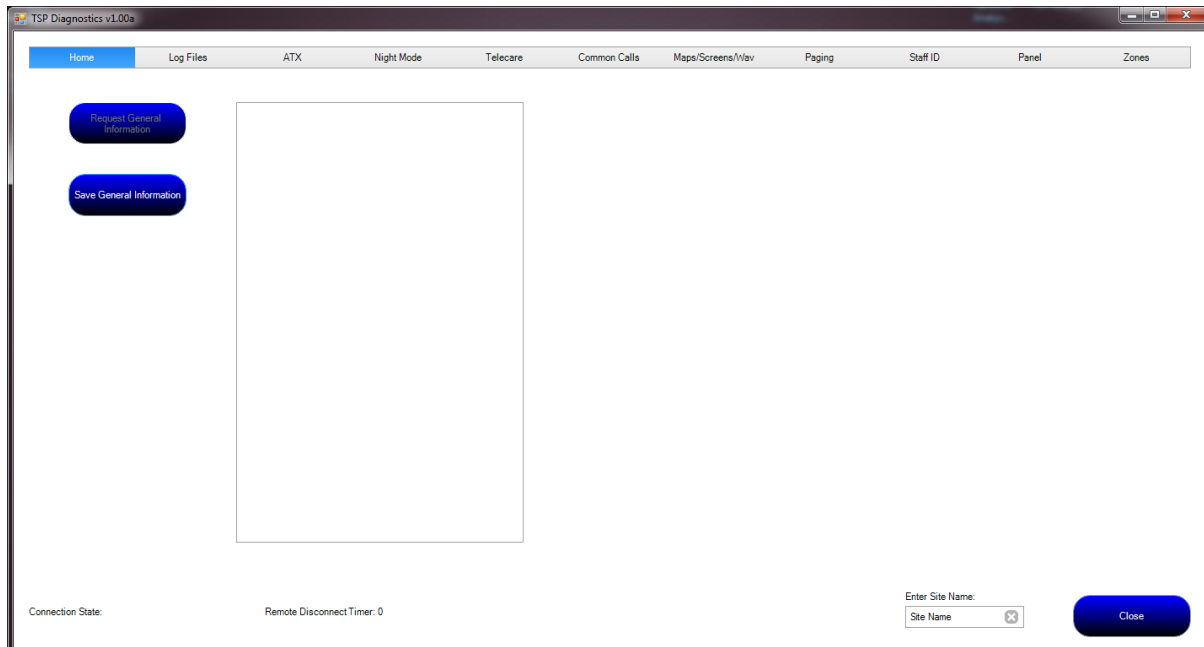
A shortcut will have been created on the desktop of your PC.

The shortcut is called "**TSP GSM Modem**"

10. RUNNING THE PC SOFTWARE

Double Click on the shortcut to run the software, the following application will appear...

Note: the remote Touchsafe Pro panel must be configured to allow the connection and the connection process must be started by either pressing the “Connect” button at the remote panel or by dialling into the panel from a mobile phone.



Each of the tabbed pages can be used to collect the required data from the remote panel.

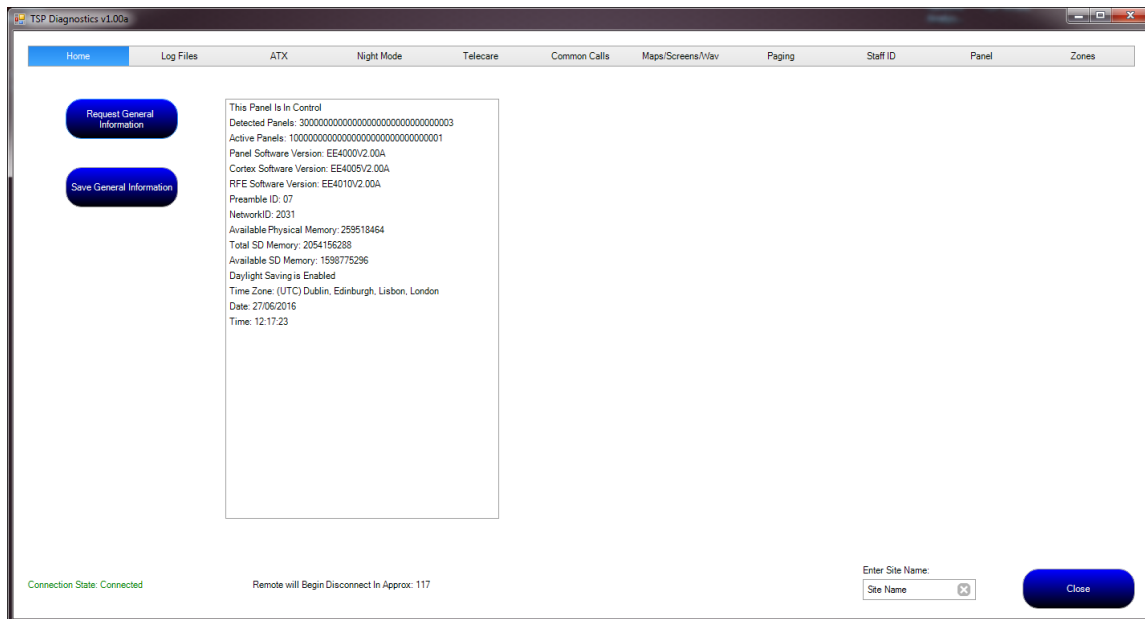
Once the panel has connected, its connection status is shown in the lower left of the application and a timer will decrement to show the remaining connection time. If no further request to the panel is made, the timer in the panel will count to zero and begin disconnection from the PC application. If further requests to the panel are made before the disconnect timeout has lapsed, the timer is refreshed. The timeout is set to 2 minutes. Once the PC application detects that there is less than 30 seconds of connection time left, the “Remote Disconnect Timer” will flash between Red and Black text as a warning.



*If at any time the **Close** button is pressed, the remote panel will detect that the IP link between the two has been broken and will begin the disconnection phase with the GSM modem.*

11. REQUEST GENERAL INFORMATION

Press the “**Request General Information**” button to display information relating to the general settings of the panel such as Date, Time, Network ID, Preamble and software versions of the panel;

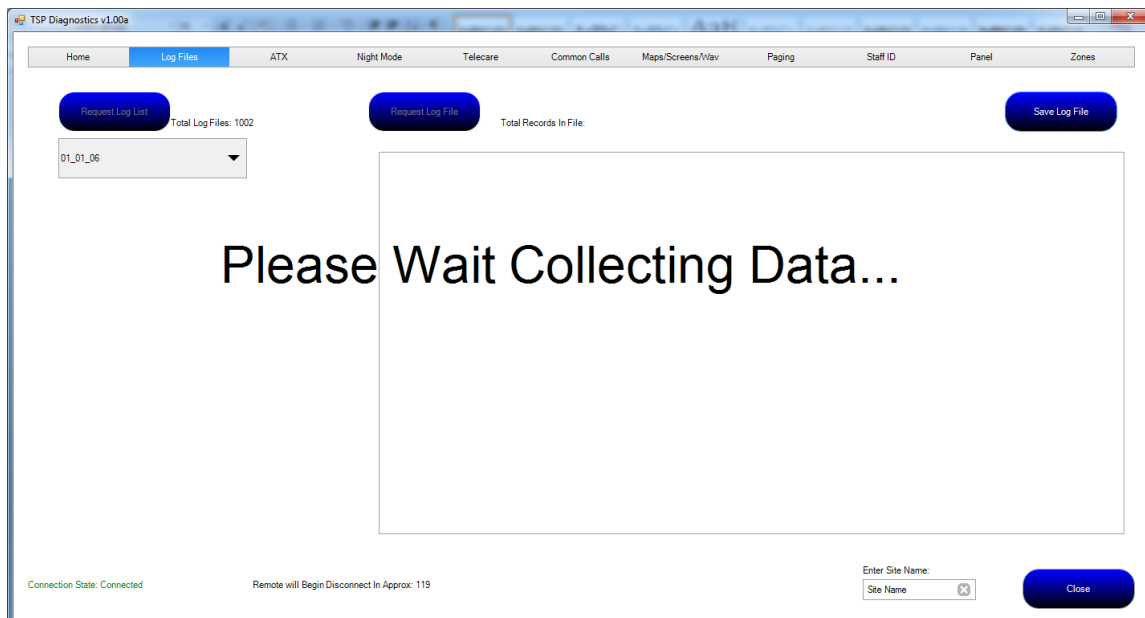


Note: this information can be saved at any time for future reference. By default the data will be saved to C:\Temp\Site Name. The user should edit the bottom right hand corner text box if a specific site name is required. If the directories do not exist, the application will attempt to create them.

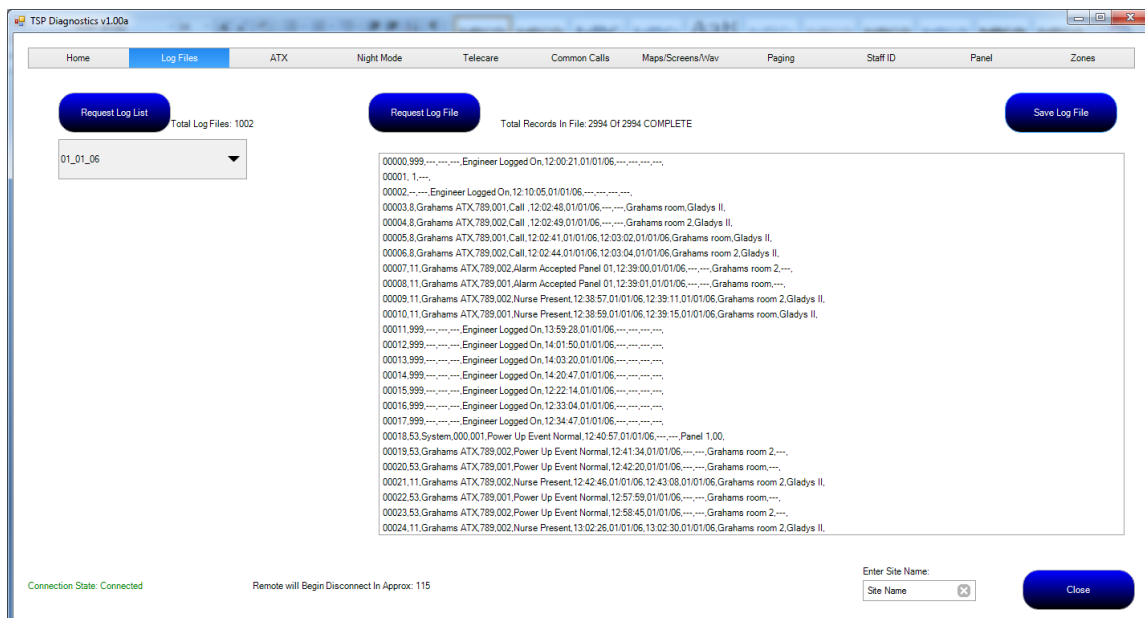
12. REQUEST LOG LIST

Press the **“Request Log List”** button to display a list of the available log files. The data may take a while to arrive if it is a large file and the **“Please Wait Collecting Data...”** message will be shown.

Individual files can then be selected from the drop down box and that file can be requested by pressing the **“Request Log File”** button.



Once the data collection is complete it will be displayed in the list box;



13. REQUEST ATX LIST

Press the “**Request ATX List**” button to display a list of all ATX’s on the site.

An individual ATX file can then be selected from the drop down box and that file can be requested by pressing the “**Request ATX**” button. Typical data for an ATX is shown below;

The screenshot shows the 'ATX' tab in the TSP Diagnostics v1.00a application. The interface includes a top navigation bar with tabs: Home, Log Files, ATX (selected), Night Mode, Telecare, Common Calls, Maps/Screens/Wav, Paging, Staff ID, Panel, and Zones. Below the navigation bar, there is a 'Request ATX List' button and a dropdown menu showing 'ATX 002 [Version C ATXs] 555002_06'. To the right, fields for 'Room: ATX 002', 'Zone: [Version C ATXs]', and 'FileName: 555002_06' are visible. Further right, there are input fields for 'Zone Name (Max 16 Characters)', 'Room Name (Max 16 Characters)', 'House Code(1 to 999)', 'Unit ID(1 to 999)', 'Display Zone(1 to 99)', and 'AVI Devices(1 to 128)'. Below these fields is a grid of 'Active Panels' with checkboxes numbered 1 through 32. At the bottom, there is a large text area containing a list of ATX files, including '[ZONENAME]', '[ACTIVEPANELS]', '[MAP]', and various binary data blocks. A 'Connection State: Connected' indicator is at the bottom left, and a 'Remote will Begin Disconnect In Approx: 104' timer is at the bottom center. A 'Close' button is at the bottom right.

If there is a requirement to add a Call Point to a site, an existing unit can be cloned.

Note: cloning a unit can only be performed within the same Zone. If a unit were allowed to be cloned in an unknown zone, radio coverage may be compromised and is therefore not allowed.

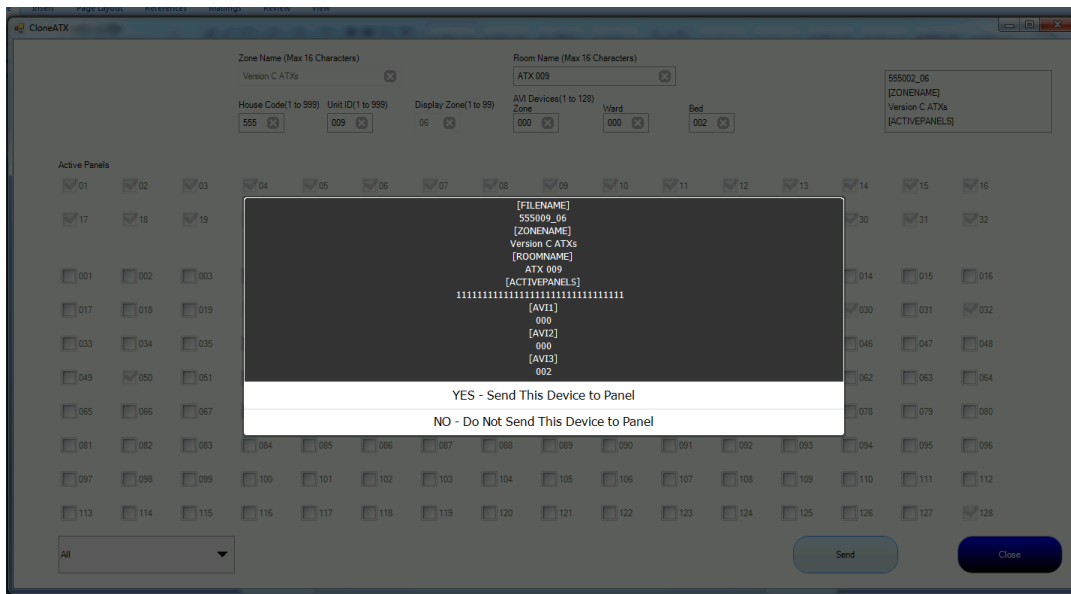
Once the device has been requested, the “**Clone**” button can be pressed and a device can be cloned.

The clone screen below shows the panels that the device is set to be shown on. The Name, House Code and ID can be changed to suit requirements.

The screenshot shows the 'CloneATX' screen in the TSP Diagnostics v1.00a application. The interface includes a top navigation bar with tabs: Home, Log Files, ATX, Night Mode, Telecare, Common Calls, Maps/Screens/Wav, Paging, Staff ID, Panel, and Zones. Below the navigation bar, there is a 'Clone ATX' button and a dropdown menu showing 'ATX 002 [Version C ATXs] 555002_06'. To the right, there are input fields for 'Zone Name (Max 16 Characters)', 'Room Name (Max 16 Characters)', 'House Code(1 to 999)', 'Unit ID(1 to 999)', 'Display Zone(1 to 99)', and 'AVI Devices(1 to 128)'. Below these fields is a large grid of 'Active Panels' with checkboxes numbered 001 through 128. At the bottom, there is a 'Send' button and a 'Close' button.

13. REQUEST ATX LIST

Once the required parameters have been entered, they can be transmitted to the panel. A confirmation prompt will be displayed;



If the data is sent to the main panel, it will be distributed to the other panels on the system. This means that once this new Call Point has arrived on site it can be activated on the system.

Note: cloning of the Follow Me Lights is not allowed; this kind of configuration would be performed by an Engineer during a maintenance visit. Addition of Call Points etc. that are not covered in the existing zones should also be added to the system by an Engineer during a site visit.

14. REQUEST NIGHT MODE SETTINGS

Press the “**Request Night Mode**” button to display all Night Mode settings on the site;

TSP Diagnostics v1.00a

Home Log Files ATX **Night Mode** Telecare Common Calls Maps/Screens/Viav Paging Staff ID Panel Zones

Request NightMode **Save NightMode**

☒ NightMode Enabled NightMode Start 1: 14:30 NightMode Duration 1 (Minutes): 420

On These Days:

☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☒ Saturday ☒ Sunday

☒ NightMode Enabled 2 NightMode Start 2: 21:30 NightMode Duration 2 (Minutes): 570

On These Days:

☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☒ Saturday ☒ Sunday

☐ Mute Alarms At Night ☐ Mute Emergencies At Night

[DAYNIGHTMODEENABLED]
1
[NIGHTMODESTART]
14:30
[NIGHTMODEDURATIONMINUTES]
420
[DAYNIGHTMODEENABLED2]
1
[NIGHTMODESTART2]
21:30
[NIGHTMODEDURATIONMINUTES2]
570
[MUTEALARMSATNIGHT]
0
[MUTEEMERGENCYATNIGHT]
0
[ACTIVEONDAYS]
1111111
[ACTIVEONDAYS2]
1111111

Enter Site Name:
Site Name

Close

Connection State: Connected Remote will Begin Disconnect In Approx: 116

15. REQUEST TELECARE LIST

Press the “**Request Telecare List**” button to display a list of all Telecare devices on the site.

An individual Telecare file can then be selected from the drop down box and that file can be requested by pressing the “**Request Telecare Device**” button. The image below shows the screen once the data for a Telecare device has been received.

TSP Diagnostics v1.00a

Home Log Files ATX Night Mode **Telecare** Common Calls Maps/Screens/Viav Paging Staff ID Panel Zones

Request Telecare List **Request Telecare Device** **Save Telecare File**

Total Telecare Files: 35

T10123456

House Code And ID: 002001

[HOUSECODEANDID]
002001

Enter Site Name:
Site Name

Close

Connection State: Connected Remote will Begin Disconnect In Approx: 116

16. REQUEST COMMON CALL LIST

Press the “**Request Common Call List**” button to display a list of Common Calls setup on the site.

An individual Common Call file can then be selected from the drop down box and that file can be requested by pressing the **“Request Common Call File”** button. Typical data for a Common Call event shown below;

[illegible]

17. REQUEST MAP, SCREEN & WAV LISTS

Press the “**Request Map List**” button to display a list of Map Files.

Press the **“Request Screen List”** button to display a list of Screen Files.

Press the “**Request Wav List**” button to display a list of Wav Files.

Individual File Names can then be selected from the drop down box.

TSP Diagnostics v1.00a

Home

Log Files

ATX

Night Mode

Telecare

Common Calls

Maps/Screens/Wav

Paging

Staff ID

Panel

Zones

Request Map List

Total Map Files: 3

Daisy W/rd

Request Screen List

Total Screen Files: 21

Aidcall_Tymetec Standby_01

Request Wav List

Total Wav Files: 9

0

Connection State: Connected

Remote will Begin Disconnect In Approx: 105

Enter Site Name:

Site Name

Close

18. REQUEST PAGING INFORMATION

Press the “**Request Paging Information**” button to display a list of all Paging Files on the site.

An individual Paging File can then be selected from the drop down box and that file can be requested by pressing the “**Request Pager File**” button. Typical paging parameters shown below;

TSP Diagnostics v1.00a

Home Log Files ATX Night Mode Telecare Common Calls Maps/Screens/Vlax **Paging** Staff ID Panel Zones

Request Paging Information Total Paging Files: 2 **Request Pager File** **Save Paging File**

PagingSetup ▼

[PROTOCOL]
ASTRA
[CARDIACBEEP]
6
[EMERGENCYBEEP]
5
[ASSISTANCEBEEP]
3
[CALLBEEP]
6
[NURSEBEEP]
0
[MONITORINGBEEP]
4
[BEDBEEP]
4
[MAINTENANCEBEEP]
5
[REPAGEINTERVAL]
60

Connection State: Connected Remote will Begin Disconnect In Approx: 117

Enter Site Name:
Site Name **Close**

19. REQUEST STAFF ID LIST

Press the “**Request Staff ID List**” button to display all staff ID tags that are linked to IR devices;

TSP Diagnostics v1.00a

Home Log Files ATX Night Mode Telecare Common Calls Maps/Screens/Vlax Paging **Staff ID** Panel Zones

Request Staff ID List **Save Staff ID**

[01]
Jennifer Jameson
[02]
Mary White
[03]
Judith Clark
[04]
John Hodge
[05]
Ian Smith
[06]
Clare McKenna

Connection State: Connected Remote will Begin Disconnect In Approx: 111

Enter Site Name:
Site Name **Close**

20. REQUEST PANEL INFORMATION

Press the “**Request Panel Information**” button to display a list of all files associated with the panel configuration on the site.

An individual Panel File can then be selected from the drop down box and that file can be requested by pressing the “**Request Panel File**” button. Typical Panel Details shown below;

TSP Diagnostics v1.00a

Home Log Files ATX Night Mode Telecare Common Calls Maps/Screens/Vlwav Paging Staff ID **Panel** Zones

Request Panel Information Total Panel Files: 8

Request Panel File

Save Panel File

PanelDetails

[PANELID]
1
[TOTALTCRS]
1
[PAGINGPANEL]
32
[NURSEHARDENMODE]
1
[USEHTMBANNERCOLOURS]
0
[HDMIENABLED]
1
[RUNSILENTAVIS]
1
[USEFOLLOWMELIGHTS]
1
[COMMONCARDIACRELAY]
1
[COMMONEMERGENCYRELAY]
1

Connection State: Connected Remote will Begin Disconnect In Approx: 112

Enter Site Name:
Site Name

Close

21. REQUEST ZONE INFORMATION

Press the “**Request Zone Information**” button to display a list of all files associated with zoned call setup on the site.

An individual Zone File can then be selected from the drop down box and that file can be requested by pressing the “**Request Zone File**” button. Typical Zone Details shown below;

TSP Diagnostics v1.00a

Home Log Files ATX Night Mode Telecare Common Calls Maps/Screens/Vlwav Paging Staff ID Panel **Zones**

Request Zone Information Total Zones Files: 13

Request Zone File

Save Zone File

01 test zone 1

☐ Zoned Day Enabled

Display Daytime Zoned Calls on these Panels

☒ 1 ☒ 2 ☒ 3 ☒ 4 ☒ 5 ☒ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12

☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24

☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32

☐ Zoned Night Enabled

Display Nighttime Zoned Calls on these Panels

☒ 1 ☒ 2 ☐ 3 ☐ 4 ☐ 5 ☒ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12

☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24

☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32

[ZONENAME]
test zone 1
[DAYPANELS]
11111100000000000000000000000000
[DAYENABLED]
0
[NIGHTPANELS]
11000100000000000000000000000000
[NIGHTENABLED]
0

Connection State: Connected Remote will Begin Disconnect In Approx: 117

Enter Site Name:
Site Name

Close

22. SPECIFICATION

Modem	
Manufacturer	Robustel
Model No.	M1000 MP
Standards	LTE Cat 1
Serial Port	Female 9 Pin D - RS232 115,200 Baud
USB	Female Mini USB 2.0
Power Indicator	Green LED
Status Indicator	Green LED
SIM Interface	3V/1V8 SIM
Power Connector	2 Pin 3.5mm Male Terminal Block
Input Voltage	6 to 36V DC
Antenna Connector	SMA-K
Cellular Antenna	2G/3G SMA Male 698MHz-960MHz 50Ω 4.6dBi
Weight	90 grams (exc PSU)
Dimensions	85mm x 75mm x 28.5mm
Material	Black ABS
Installations	Desktop, wall mounting or 35mm DIM rail mounting
Ingress Protection Rating	IP30
Relative Humidity	Non-condensing
Operating Humidity Range	5% to 95% RH
Operating Temperature Range	-40°C to +85°C

Power Supply	
Manufacturer	Glob Tek Inc
Model No.	GT-41062-1812
Input	100-240VAC 50/60Hz, 0.6A
Output	12V DC 1.5A
Weight	157 grams
Safety	Internal Short-Circuit Protection