DallasDelta Corporation Pty. Ltd.

01 Australian Made | 02 User Friendly | 03 Low Cost Ownership | 04 Vandal Resistant | 05 Weather Tough

WeatherTough

LOUDSPEAKING TELEPHONE

OVERVIEW

Enclosure With Door

Size : H 320 mm x W 220 mm x D 125 mm

Weight: 5kg

Enclosure Without Door

Size : H 320 mm x W 205 mm x D 125 mm (max)

Weight: 3.8kg

Material: Cast aluminium

Rating: IP65

The Roadside Emergency Telephone Range is designed for Australia's rugged locations and toughest conditions.

It is well suited to motorways, tunnels, bridges, mining and construction sites.

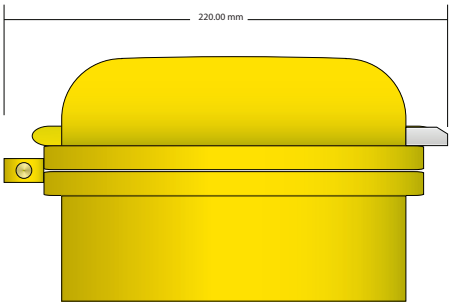
The enclosure is rated **IP65**. Made from vandal resistant cast **Aluminium Alloy** with heavy duty powder coating on the enclosure.

Please contact us for more information and to discuss the customisation options.

FEATURES (VoIP)

- *Auto dialling*
- *CISCO call management compatible*
- *Remote level control speaker & microphone*
- *Remote programming facilities*
- *Remote diagnostic testing (optional)*
- *Self identification*
- *Powder coated cast aluminium enclosure*
- *Stainless Steel Spring Hinge*
- *Dedicated VoIP chip set*
- *Firmware upgradable*
- *Only requiring a 10 Base-T ethernet*
- *SIP standard protocol*
- *Multi CODEC selection*
- *Two direct dial button inputs*
- *Handset or Loud Speaking model*
- *Auto disconnect*
- *Two modes of Power over Ethernet (PoE)*
- *Conversation timer*
- *All options set via HTTP*
- *Non volatile memory*
- *Vandal resistant*

PROFILES



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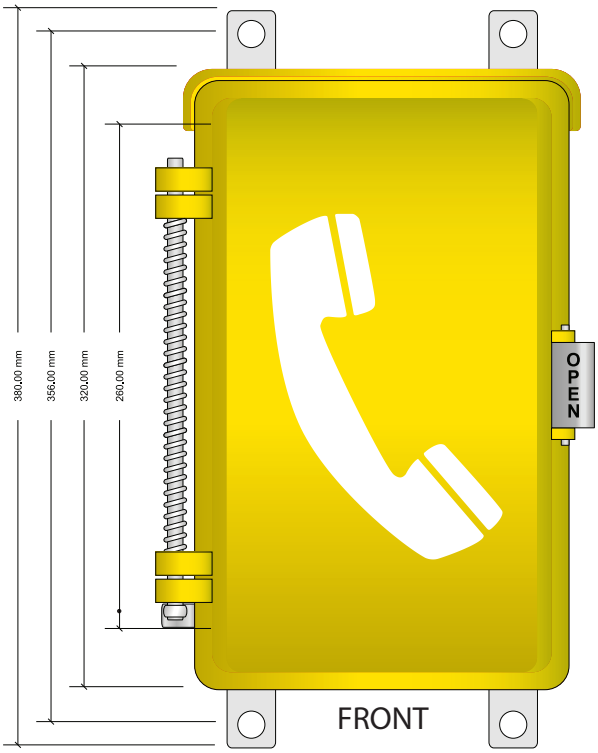
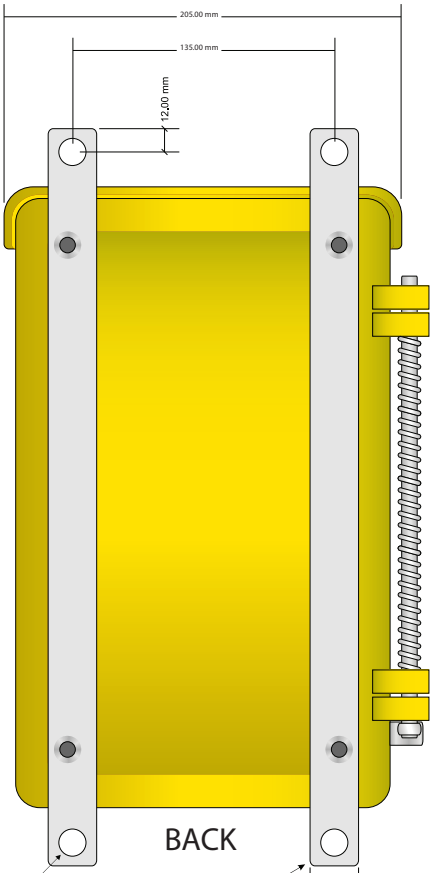


FRONT



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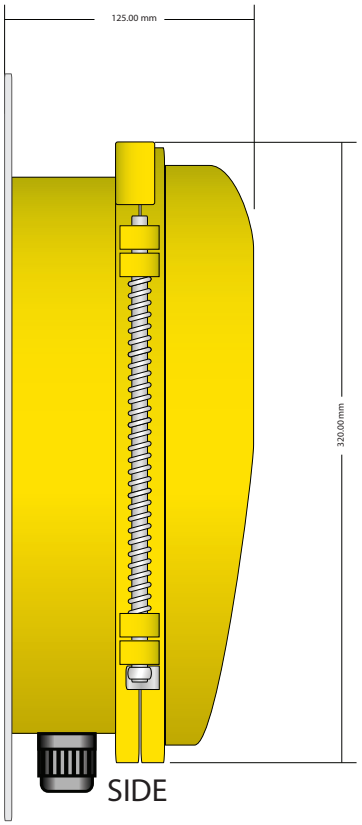
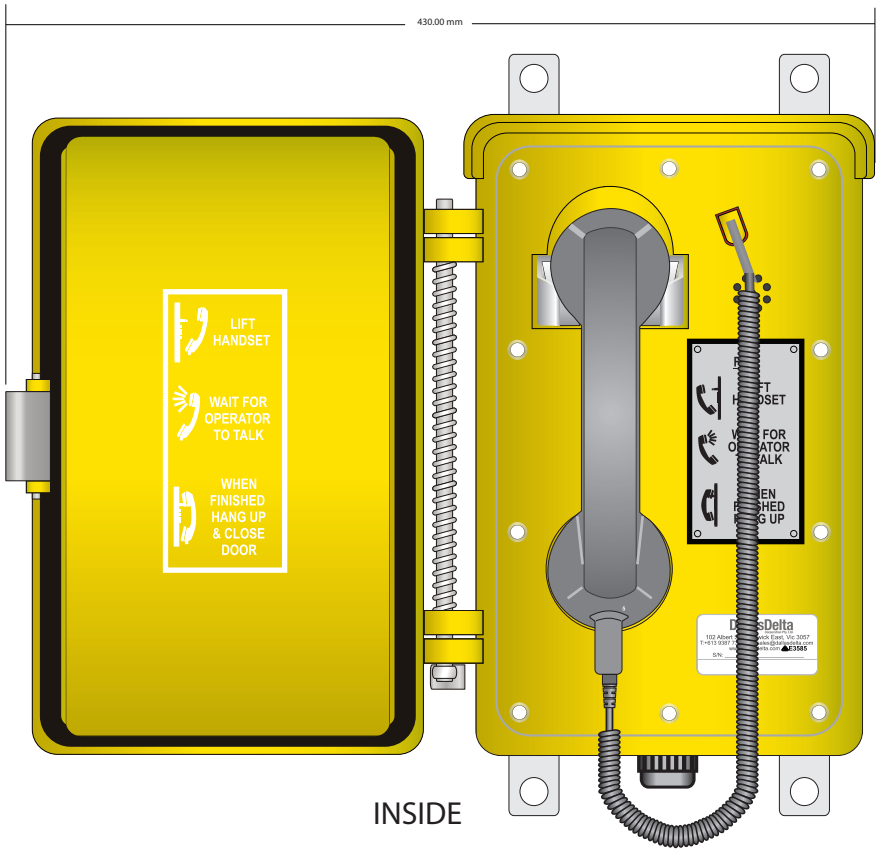
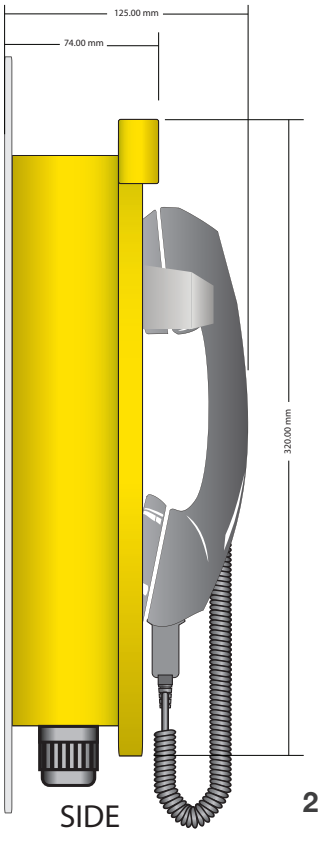


SIDE

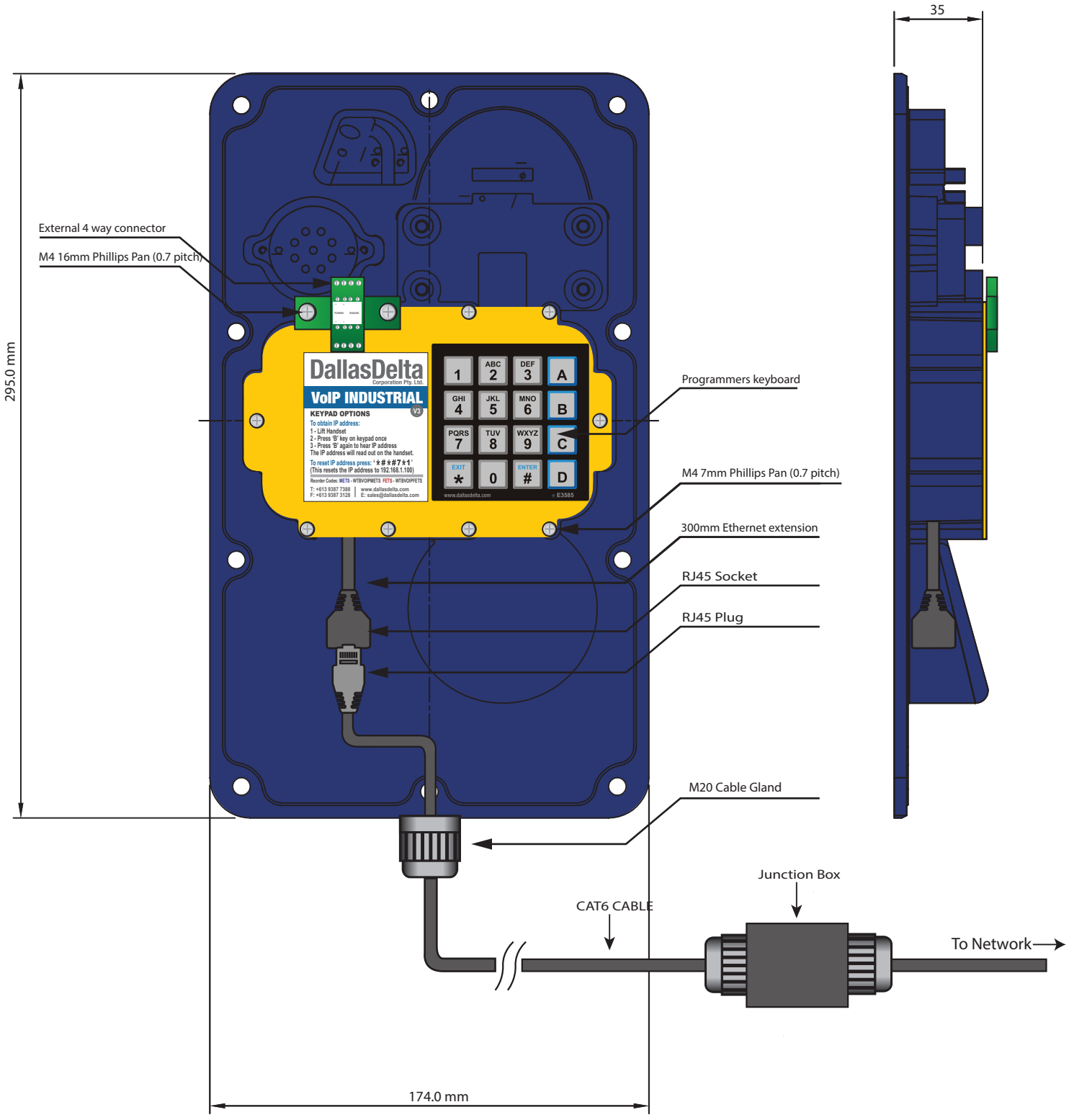


INSIDE



SIDE

INSIDE VIEW


35
External 4 way connector
M4 16mm Phillips Pan (0.7 pitch)
295.0 mm
DallasDelta
Corporation Pty. Ltd.
VoIP INDUSTRIAL
KEYPAD OPTIONS
Programmers keyboard
M4 7mm Phillips Pan (0.7 pitch)
300mm Ethernet extension
RJ45 Socket
RJ45 Plug
M20 Cable Gland
Junction Box
CAT6 CABLE
To Network
174.0 mm

Customisation Options

Every project is different and may require customization to specifications, The Roadside Emergency Telephone options include:

- *VoIP*
- *Line powered*
- *3G/GSM*
- *Push button loud speaking (multiple buttons)*
- *Handset with armoured cord (optional length)*
- *Handset with rugged curly cord (optional length)*
- *Keypad*
- *Hot line auto dialling*
- *Increased IP rating*
- *External ringer*
- *No Door*
- *Enclosure Colour (Red, Blue & Yellow)*

Network Settings

The Connection Type enables the unit to be connected via a STATIC IP, DHCP or PPPoE address.

If the connection is DHCP then the IP address, Mask and Gateway are automatically assigned by the server.

Alternatively, if connection is via a Internet Service Provider (ISP) then select PPPoE and set the user ID and PIN as supplied to you from your ISP.

Note that for some servers, the connection type may need to be set to DHCP.

Reporting

SNMP

The phone can recognise that it is faulty and report condition via SNMP. This can be used by the connected server as a method of determing the health condition of the phones in the system.

This can be programmed in an automatic procedure or you can manually log into device to perform a test and get the result.

Self Test

The self test will initiate a manual VoIP Self test procedure. This is generally an automatic procedure, but can be triggered manually from the direct login.

Once the test is initiated, the unit will go through the testing process and the results will be posted in the page and failures will be presented on the configuration page.

The Self Test is scheduled to activate at 3:00am each day as a default.

The unit will self test the following items:

- *Microphone*
- *Speaker*
- *Ringer*
- *Button Status*
- *Hook State*

Connection to Roadside Emergency Telephone System

End to End Digitalisation

Deploying our system in various situations (including public transit systems and motorways or toll ways) allows every device on the system to be digital or a combination of digital and analog via ATA equipment. There is clean conversion from analogue signals to digital and no associated loss of audio quality, there aren't any routing errors, and calls are completed more frequently than any other system. Our system also allows you to use the highest quality audio conversion and compression systems in the world to ensure that what is said, is what is heard.

End to End Monitoring/ State Reporting

Using our system, you can see every extension on your telephone system (including extensions that are interstate and overseas) and know their exact status through a web based browser. This is monitored via the Operator GUI panel which shows status of all extensions in your system, regardless of weather they are digital, analogue or 3G/GSM.

Self-Monitoring

Using Dallas Delta manufactured telephones, the system can be programmed to dial each telephone and wait for a response which tells the system if there is a fault with the phone or it is working fine. From here, the system can generate an email report which is sent to a designated person for review. This saves you money by allowing your maintenance schedule to reduce the number of inspections carried out on the equipment. We are currently developing a method of providing automated self-testing and status reporting across digital, analog and 3G/ GSM telephony equipment which all report back to the operator GUI screen and are displayed as device state.

Record Verification Ability

With our state of the art system, you can do audio recording of telephone calls (either just ones that come in via the queue, all calls that are inbound, all calls that are outbound or calls to or from a particular extension set) as well as have detailed CDR's (call detail records) which tell you exactly what happened for each call on your system. Call queue data can also be fed into an SQL database for analysis later on.

Modular Software System

We have integrated additional software to work with our PBX system including a system to signal hook states via a MODBUS protocol, check the network health and signal faulty equipment. Status and Fault reporting via MODBUS protocol will interface with your existing fault monitoring systems and alert the Control Room Operator to any events.

Use Of Open Standards

All of our equipment uses the open SIP standard. Lots of equipment sold on the market (is actually a proprietary implementation of SIP which means that it can only be used with propriety equipment which pushes the price up. Our equipment is compatible with SIP2.0 and allows you to add more extensions and equipment to the system cheaply. The main core software is continually upgraded (which can be implemented after a system has been installed) and presently even includes support for video calling. The operating system is Linux which guarantees a stable performance including after several years of use, as well as less vulnerabilities. Our software engineers are experts in Asterisk open source systems which provide a secure framework for building communications applications, IP systems, VoIP gateways and other custom solutions.

In most cases, there is no need for ongoing licenses or subscriptions: perfect for closed and secure networks.

Multiple Redundancies

We are used to providing systems working over secure networks in critical infrastructure environments. Our systems are designed to allow for Multiple Redundancies and can be designed to cope with a failure at any single point in your communications network.

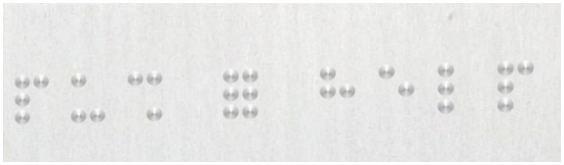
See the DDC Roadside and Emergency document for more information

Labelling

On request labels installed on the products comply with the requirements of EN60950 that is, that they are durable can not be easily removed, chemical resistant, and in some cases permanent fixed to telephone.

They are made from materials such as: laser etched aluminium, engrave material, 3M retro reflective adhesive.

They Include: Trum, MET ID, Instruction label plate, hearing aid coil and disability METS instructions.



Certification & Compliance

RCM - **E3585**

ACMA - All relevant Australian Communications & Media Authority Standards

EN60950 - European Safety Standards

AS/NZS CISPR22 - EMI Australia/ New Zealand Standard

EN55022 - EMI European Standard

ACMA S004 - Voice

ACMA S002 - Signalling

ACMA S040 - Disability

As well as:

AS1670 - Fire detection, warning, control and intercom systems

AS4428.4 - Fire detection, warning, control and intercom systems

AS1428.5 - Disability Standards for Accessible Public Transport 2002

AS822-1985 - Acoustics Method of assessing and predicting speech intelligibility (Heggies Articulation Index)

Dallas Delta Corporation is an **ISO 9001** Accredited Company

MTBF (VoIP)

Mean Time Before Failure Rating - 308,644

E3585

QAS INTERNATIONAL ISO 9001:2008 REGISTERED FIRM

IP RATING

IP is an acronym for **Ingress Protection**.
Each IP rating has 2 numbers. The first number refers to the protection against solid objects (dust, etc) and the second number refers to liquid protection.
The **Weather Tough range** is rated at: **6** (Dust tight) **5** (Protection against water jets)

Line Powered Specifications (optional configuration)

TELEPHONY LINE:		PSTN or PABX
REN:		0.05
RELAY RATINGS:	Switching maximum	2A@30V DC 1A@60V DC 1A@30V DC
DTMF:		100 ms duration 100 ms inter-digit pause
DECADIC:		66 ms break pulse 34 ms make pulse 800 ms inter-digital pause
ISOLATION:		> 3kV isolation between the user and the telephone line > 3kV isolation between the user and the handset
RETURN LOSS:		> 15 dB against TN 12 termination
TEMPERATURE:	Operating range	0ºC to +50ºC
PHYSICAL:	Enclosure dimensions Weight Enclosure dimensions Weight Material Finish Handset Handset cord	Without Door: **H** 320 mm x **W** 205 mm x **D** 125 mm (max) 3.8kg With Door: **H** 320 mm x **W** 220 mm x **D** 125 mm 5kg Cast aluminium Powder-coated (space blue) (signal red) Polycarbonate Curly cord or armoured cord handset

VoIP Specifications

INPUT SUPPLY:	Input voltage	9 Volts (minimum) - 50 Volts (maximum)
CONSUMPTION:	Current-idle mode On call	75mA @ 12Vdc (0.9 Watts) 115mA @ 12Vdc (1.38 Watts) normally
RELAY CONTACTS:	Switching maximum	1A @ 60Vdc / 40Vac SELV or TNV (non inductive load) Voltage free Inputs
TEMPERATURE:	Operating range	0ºC to +50ºC
SPL:	Ringer output level	>80dBa @ 1 metre
COMMUNICATION:	Ethernet Connection protocol CODECs	10 BASE-T SIP G711 (uLaw, aLaw), Speex, iLBC, G726-32, GSM, G.729
PHYSICAL:	Enclosure dimensions Weight Enclosure dimensions Weight Material Finish Handset Handset cord	Without Door: **H** 320 mm x **W** 205 mm x **D** 125 mm (max) 3.8kg With Door: **H** 320 mm x **W** 220 mm x **D** 125 mm 5kg Cast aluminium Powder-coated (space blue) (signal red) Polycarbonate Curly cord or armoured cord handset

GSM Specifications (optional configuration)

POWER:	Talking	Typical 305 mA.
	Active	Ready to make and receive calls FAST blink: 50 milliamps average
	Mode 1	SHORT blink: ~ every 8 secs < 400 microamps average.
	Mode 2	alternate SHORT blink/LONG blink: ~ every 8 secs alternating ~ 12 milliamps average
	Battery disconnect	11.1 volts
	Battery re-connect	12.6 volts
TEMPERATURE:	Operating range	0ºC to +50ºC
SPL:	Ringer output level	>80dBa @ 1 metre
COMMUNICATION:	Ethernet	10 BASE-T
	Connection protocol	SIP
	CODECs	G711 (uLaw, aLaw), Speex, iLBC, G726-32, GSM, G.729
PHYSICAL:	Enclosure dimensions	Without Door: **H** 320 mm x **W** 205 mm x **D** 125 mm (max)
	Weight	3.8kg
	Enclosure dimensions	With Door: **H** 320 mm x **W** 220 mm x **D** 125 mm
	Weight	5kg
	Material	Cast aluminium
	Finish	Powder-coated (space blue) (signal red)
	Handset	Polycarbonate
	Handset cord	Curly cord or armoured cord handset
BAND:	GSM	GSM 850MHz EGSM 900 Mhz DCS 1800 Mhz PCS 1900 Mhz
	WCDMA	WCDMA 850 MHz WCDMA 900 Mhz WCDMA 1900 Mhz WCDMA 2100 Mhz
	HSPA	HSDPA
Antenna:	3G	Antenna cable 1100 mm terminated with male SMA and female FME connector.

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