

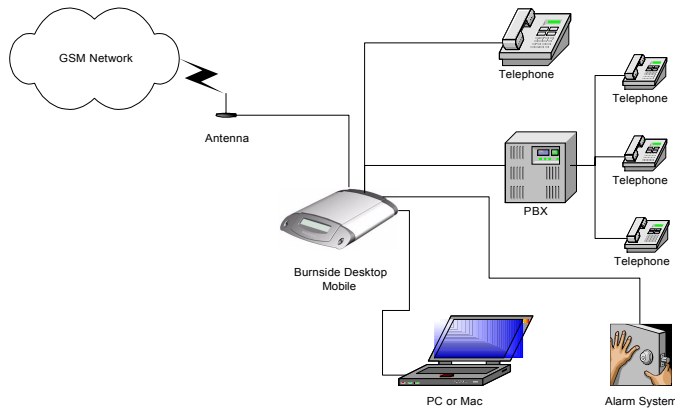
Burnside Desktop Mobile

a new kind of fixed cellular terminal that provides phone, text messaging, internet/email/pc fax and remote control and monitoring at any location within GSM/ GPRS coverage.



Note that production units use grey plastic end caps

- Cuts cost of calls to mobiles from landline phones by as much as 70%
- Saves more money by sharing your SIM with other users
- No waiting or installation charges for a phone line
- Text messaging using any ordinary touch tone phone
- Easy to use mobile phone menu avoids need for manual
- Works with ordinary touch tone phone and PBXs
- Embedded modem connects to PC, Mac or PDA
- Sends a text to your handheld mobile if your alarm is activated
- Send it a text message to control attached equipment
- Ideal for use in remote locations and in boats or vehicles
- Works from your car battery or mains power
- Works better in fringe areas, less vulnerable to damage or theft and more comfortable to use than your mobile phone



What is the difference between a handheld mobile phone and a Desktop Mobile?

A handheld mobile phone is a personal phone whose number and use is dedicated to a single person and is usually kept on the person wherever they go. Whereas a Desktop Mobile provides the benefit of a fixed and permanent communications terminal with the added flexibility that cellular wireless networks provide. Unlike a mobile phone a Desktop Mobile can also be connected to a wide variety of equipment including touch-tone telephones, PBXs, computers and remote sensing and control equipment.

Would you like to cut the cost of calls to mobile phones from your landline phone or PBX?

Every time you make a call from a landline phone to a mobile phone you are charged twice because your call goes across two networks. By connecting your landline phone or PBX to the Desktop Mobile the cost of your calls can be substantially reduced. Your call now avoids the landline phone network and you can take advantage of the 'free minutes' available on most pay monthly mobile phone tariffs. If you use a two-line telephone, it couldn't be simpler to choose the 'lowest cost route'.

You save even more money because the Desktop Mobile lets any number of people share the same mobile phone contract. If most of your calls are inbound a pay as you talk SIM in the Desktop Mobile will save you having to pay landline installation charges and rental and you won't have to suffer any more forced disconnections and reconnection charges. A pay as you talk SIM will also let a family keep control over phone charges.

What do you do if your landline fails?

With a Burnside Desktop Mobile your voice, internet/email and pc fax communications can be resumed in seconds whilst you can wait days for your landline service to be restored.

Would you like to be able to send and receive SMS text messages using your ordinary touch-tone phone?

Families need to stay in touch with the children and offices need to stay in touch with their mobile staff. One of the best ways of doing this is to 'text'. Yet people in homes and offices instinctively prefer to use their landline phone instead of their mobile phone. So the Desktop Mobile lets you compose, send and receive text messages using any type of touch-tone phone. An incoming text message rings the attached phone and flashes the Desktop Mobile's screen. Because the Desktop Mobile is desktop and not hidden in a bag or briefcase, the message can be retrieved and acted on by any one in the vicinity.

Would you like to be able to use your mobile phone to monitor and control what is happening at any remote location?

Well now you can. You can connect the Desktop Mobile to an electrical circuit or switch or alarm. The next time the circuit is activated or changes state, a precoded SMS text message is immediately sent to your mobile phone. You can also send a precoded text message to the Desktop Mobile so that it can switch on or off any type of electrical device like an oven or a garden watering system.

A personal alarm system connected to the terminal can alert a neighbour, nurse or police.

Because communications are by wireless it is not possible for the line to be cut or intercepted.

Network operators can also check the operation of the terminal by SMS.

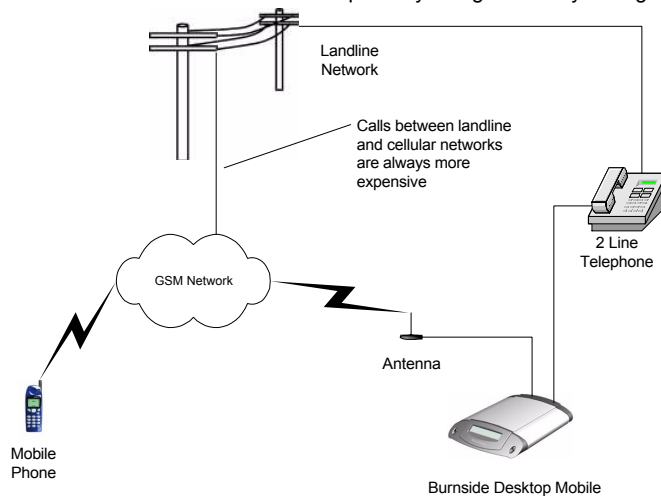
What is the best method of staying in touch with people in remote locations?

Imagine you want to speak to someone at a location remote from landlines. How do you do that if they don't have a mobile phone or you don't know their number? A Desktop Mobile in any such location provides a permanent communications link that lets you talk to anyone at that location.

In the Small Office & Home

A Desktop Mobile connected to an office or home phone system allows anyone to make cellular phone calls using the existing wiring.

If the majority of calls are to mobiles, the fixed line can be terminated or the internal wiring can be split and some of the home telephones can then be dedicated to mobile calls - the landline possibly being used only for high



speed Internet access and fax service.

On the construction site

Even in areas where fixed lines are available, cellular communications can offer substantial benefits over fixed lines. In temporary locations like construction sites the cost of installing and likelihood of damage to landlines make cellular communications a much more attractive proposition.

At the exhibition

If you've ever had the job of organising an exhibition stand, you'll know that nothing happens when it should. Frequently the stand phone line isn't installed until the show is due to start and you'll have paid an exorbitant amount of money to have the line installed.

The Burnside Desktop Mobile can be installed as soon as you get there and even if you don't have mains power, the standby battery option will keep you running for at least 24 hours. You also have the comfort of knowing that the phone number is permanently yours and is on your sales brochure and on your web site.

In remote areas

In remote areas and most third world countries where there are no fixed lines, a Burnside Desktop Mobile provides instant communications. It can for example be used with a payphone to provide communications for the local community.

At Sea

Most coastal areas are now within GSM cellular coverage. However mobile phones are generally unsuitable for use in such locations many of them ending up in a watery grave. Any boat with steel hull or superstructure prevents signals getting to a mobile phone – so the Desktop Mobile's external antenna solves this problem. The same terminal can also be used for internet/email/pc fax access and means by which any sensor on the boat may be monitored remotely. Theft of and items from boats is now commonplace. The Burnside terminal connected to a simple switch on a hatch door or connection to any other transducer provides an immediate SMS text to the owner. A future firmware release also allows a connected GPS receiver to send SMS coordinates to any mobile phone.

On the Road

Although there are many mobile phone car/lorry kits available – none provide the multiple functions of a Desktop Mobile making it particularly suitable for transport,



emergency and defence applications.

Other applications?

See www.burnsidetelecom.com

What other benefits does the Desktop Mobile deliver that a mobile can't?

You're unlikely to get mugged because you've got a Desktop Mobile. You'll find it rather difficult to accidentally drop your Desktop Mobile down the toilet. Connecting any type of loudspeaker phone to the Desktop Mobile lets everyone participate in conference calls. It is easier to dial, long phone calls are much more comfortable and according to some its safer because the aerial is remote from the phone handset.

What do you have to do to get the Desktop Mobile working?

All you need is to connect any type of corded or cordless touch-tone phone, insert a SIM and plug in the supplied aerial. The supplied AC adapter provides power or the unit will work from any DC supply between 8-32V. You use the keyboard on the phone to navigate a simple mobile phone menu on Desktop Mobile's display to operate any of its functions.

A trickle charged uninterruptible power supply is supplied as an option to give you an emergency supply in case of a mains power failure. An LCD indicator on the front of the terminal helps you locate the aerial for strongest signal strength.

How fast does it work on the Internet?

Using the GSM network you will be able to work at 9.6Kbps, which for most e-mails is acceptable, and some web sites. For faster speeds up to 86Kbs you can use the local GPRS network.

You can use your existing phones.

The terminal works with almost any type of corded or cordless touch-tone phone including the very latest type of DECT phones.

Do you need a computer to set up or make it work?

No – any touch-tone phone is all that you need.

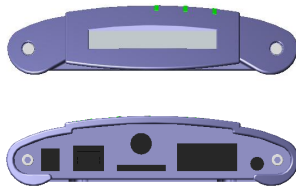
How do I connect the Desktop Mobile to my PBX?

You connect the Terminal to any analogue trunk port on your PBX. Most modern PBXs can automatically route specific number calls or calls starting with 07 to the GSM terminal. If in doubt check with your PBX supplier.

Can you recommend a make of PBX?

Burnside Telecom also manufactures a small PBX which supports two analogue trunks and up to eight extensions. The Burnside PBX has most of the features of much more expensive systems like user recordable auto attendant, caller announcement and voice mail at a fraction of the cost. See www.burnsidetelecom.com for further details.

Specification



Dual Band GSM/GPRS Type FCT2

Product Features

- Dual band EGSM900 and GSM 1800
- Compliant to GSM phase 2/2+
- Class 4 (2W) at EGSM900
- Class 1 (1W) at GSM1800
- GPRS multi-slot class 8
- GPRS mobile station class 8

Audio

- Echo cancellation.

SMS

- Point to point MO and MT
- SMS cell broadcast
- Text and PDU mode
- Remote diagnosis

Supplementary Services

- Phone B
- Multiparty
- DTMF

Phone/PBX Interface

- RJ11 socket. Adapter included for BT Modular plugs.
- DC loop current 25mA
- DC loop range typically 50 ohm
- Ringing signal 25Hz trapezoidal (40V RMS)
- Ringing load 3 REN
- CLIP UK SIN227, DTMF, ETSI or Bellcore.

Phone Menu

- Phone Book
- Messages
- Call Register
- Call Divert
- Settings

- Input/Output Settings
- Help
- CLI displayed

Data

- CSD up to 14.4 kbps
- USSD
- Non transparent mode
- V110
- GPRS: max 85.6 kbps
- Coding Scheme CS 1,2,3,4
- PPP Stack

Computer Connectivity

- MS Windows or Apple Mac Interface
- DB9 Socket
- Standard EIA Serial RS232
- Bit rate & format
- 115200, 8 data, 1 stop bit, no parity.
- Hardware Handshake
- CTS pin 8 & RTS pin 7
- USB or Bluetooth Option

Display

- Mobile phone like menu
- Status/Setup Information
- SMS Write, Send & Receive
- 2 x 16 character white on blue LCD. Transflective grey on green option.
- Sends Caller ID to UK [SIN227], European [ETSI, DTMF] or US [Bellcore] phones

SIM Access

- Retracting mini SIM carrier.

Antenna Connector

- FME Male.
- FME to SMA adapter option

Antenna

- Dual Band 2m lead magnetic base FME Female plug.
- Directional YAGI Option

Input/Output Channels

- Channel 1
 - Logic level input or output
- Channel 2
 - Input only
 - Logic level or triggers between 0-5V

- Remote monitoring & control of attached devices and status of terminal by SMS

Power Requirements

Voltage Range:

- 8-32V DC

Current at 12V:

- Idle Mode 55mA
- Speech Mode Average 390mA
- Speech Mode Max 600mA

UK AC Adapter

- Input Voltage - 230VAC
- Output Voltage/Current - 12VDC/ 600mA
- Connector - 5.5mm ext dia x 2.5mm int dia x 10mm long Centre Positive
- Weight - 290g
- Dimensions - 80mm x 80mm x 50mm
- EU, AU and USA versions

Mechanical

- Size - 148mm x 210mm x 43mm
- Weight 550gm excl AC Adapter

Tri Band GSM/GPRS Type FCT3

as above type plus

- Tri-band EGSM 900/GSM 1800/GSM 1900
- Output power 1W at GSM 1900
- GPRS Class 10
- Packet Broadcast Control Channel
- WAP compliant
- FCC & PTCRB approval

Options

Uninterruptible Power Supply Part No:

- 2 x 10 AA Ni-MH Pack
- Capacity – 1.7Ah
- Talk Time 4h
- Standby Time 20h
- Weight 460gm
- Size 148mm x 140mm x 43mm

Designed and Made in the UK

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