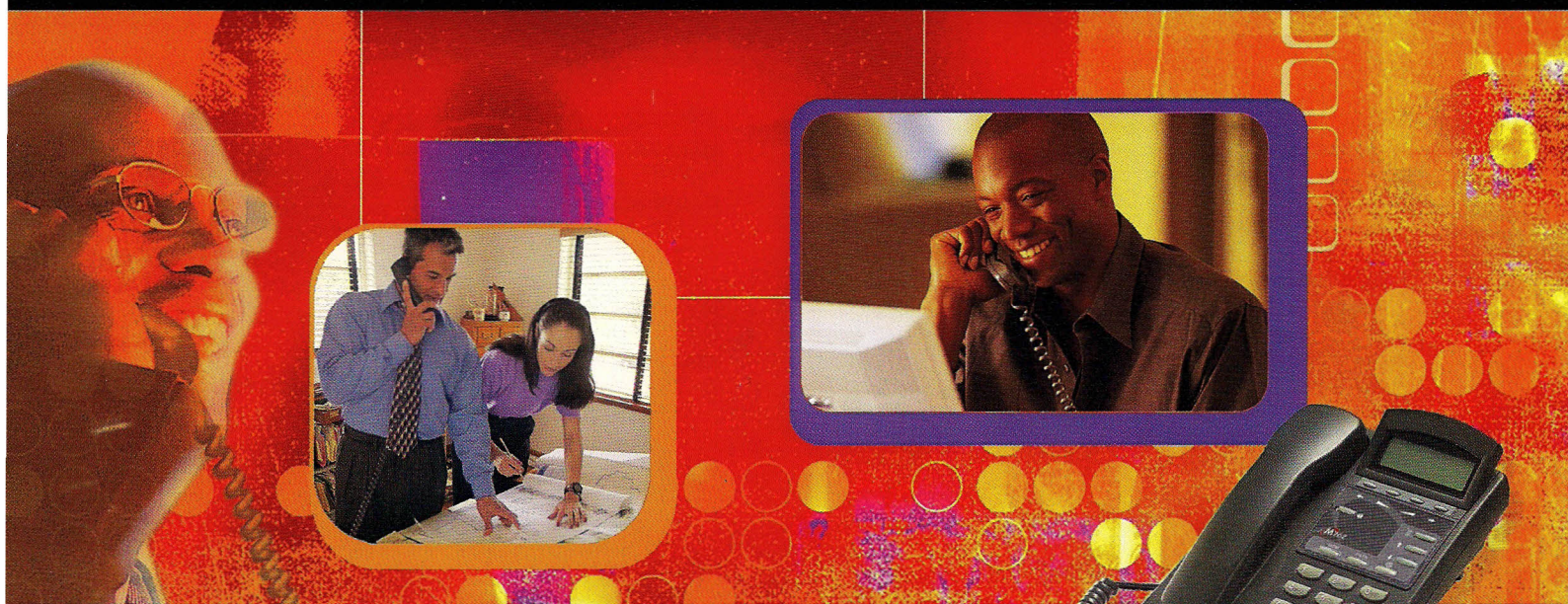# M762 Dual Network Telephone

Multi-functional M762. The desk phone that's also a cell phone, that thinks like the Financial Manager.

Here's a phone that's set to redefine personal and corporate communications, by putting the best of both worlds on your desk.

The Tellumat M762 Dual Network Telephone is a combination GSM and PSTN fixed line telephone that can be programmed to select the GSM or PSTN network based on the number dialled – or the user can override call routing and manually select a network to make a call. This carrier pre-selection and automatic call routing capability makes the M762 an ideal solution for controlling communications costs at home or in the office.

This ergonomically designed desk phone combines convenient GSM cell phone features - such as a phone book, SMS, last ten numbers dialled, and Caller ID – with standard PSTN/PBX connection and desk phone capabilities, such as hands free speakerphone functionality, providing an all-encompassing communication solution for home or office.

The M762 offers SIM locking and the ability to retrieve summary call records by SMS. Up to ten PIN protected user accounts, each with a separate GSM, PSTN and International call duration budget can be used to keep a tight reign on telephone usage. It also allows for barring of specified numbers, preventing misuse of your telephone system.

During a GSM call, incoming PSTN calls can be serviced by putting the call on hold, and vice versa. Replacing the handset will clear both calls simultaneously; alternatively, the "Clear" key can be used to clear individual calls.

Added to its full duplex hands-free voice capabilities, the M762 offers SMS messaging and computer fax/data via circuit switched data (CSD.) Its built-in battery provides up to 5 hours of talk time, ensuring you'll always have network access. M762 supports a number of thermal printers for printing SMS messages or receipts in vending or banking applications.

Other special features

- Dual Band (900 /1800) GSM and independent fixed line (PSTN or PBX) connection
- Summary call duration records via SMS or on-screen display
- GSM or PSTN dialling from phonebook
- GSM services such as caller ID, call forwarding, call barring, call hold, etc.
- Emergency numbers list
- SIM Application Toolkit compatible
- PBX setting facilitates prefix for external line access on a PBX

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Functional Specifications

Call Statistics
- Summary records of all calls made, broken down to one PSTN and up to six GSM networks
- Record of total call duration (minutes) and number of calls made during peak and off-peak period for each network
- Call statistics can be displayed on the phone LCD or printed in easy-to-read format
- High-level summary report combining records from all networks
- Call records can be remotely requested using SMS commands
- Call records are sent via SMS to designated mobile device

Account Codes
- Up to ten PIN protected account codes can be programmed via keypad or P.C. Software
- Each account code has a separate GSM, PSTN and International airtime budget (in minutes)
- Master Admin PIN that can edit or delete accounts
- Barred numbers that apply to all users
- Programmable emergency numbers that can always be dialled, irrespective of users account status
- Account details can be printed in easy-to-read format

Security
- Two levels of PIN security – Security PIN and Admin PIN
- Security PIN controls access to SIM locking and SIM PIN commands and overrides the Admin PIN
- Admin PIN controls account code management

PABX Operation
- Dial prefix and delay for external trunk
- PSTN recall function facilitates PSTN value added services operation

Technical Specifications

Air interface
- ETSI GSM 900/1800 Phase 2+ dual band operation
- Class 4 (2W @ 850/900 MHz)
- Class 1 (1W @ 1800 MHz)
- Fully Type Approved

PSTN interface
- PSTN line impedance set for South Africa (900 Ohm complex) can be manufactured to meet specific country impedance requirements

GSM Voice and data
- Telephony and Emergency Calls
- Full rate, enhanced full rate and half rate
- Echo cancellation and noise reduction
- Dual tone Multi Frequency function
- Data circuit asynchronous, transparent and non-transparent up to 14,400 bits/s

Connectors
- RJ11 RS232 serial interface
- RJ11 RJ485 interface
- Power jack

Power supply
- Internal lithium ion 1100 mAh battery providing 5 hours continuous talk time
- No voltage polarity requirements
- AC wall charger (included)
- Operation from car battery or solar panel is possible
- Characteristics:
  - 24V max input voltage
  - 1A max continuous current
  - 900mA typical when charging flat battery

Display
- 2 line alphanumeric and graphic display with icons
- Adjustable contrast

Antenna
- Stub antenna with SMB connector (included)
- Optional higher gain external antennas available

Weights and dimensions
- Packaged: 1.4 kg
- Packaged dimensions: 265 mm x 251 mm x 117 mm

Environment
- Operating temperature and humidity
  -10°C to +45°C
  85% non-condensing humidity
- Storage temperature
  -10°C to +70°C
- Air and road transport vibration tested

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