ARISTEL NETWORKS PTY. LTD

CTM3000 GSM
Call Forwarding Unit

Programming & Operating Manual.

ARISTEL NETWORKS PTY. LTD

Introduction

Thank you for purchasing the **CTM3000** product from **Aristel Networks** Australia. The **CTM3000** allows you to answer an incoming landline call from a carrier or from your telephone system, the **CTM3000** will answer the call and "patch" the call through the mobile network to any outside telephone number (mobile or landline). You can reprogram the system at any time should you:

1. Change your mobile contract
2. Need more mobile phones
3. Change any of your mobile numbers

No expensive Technician "service visit" is required. You can do it yourself very simply.

Parts List

DESCRIPTION	QUANTITY REQUIRED	STANDARD (INCLUDED)
CTM3000	1	YES
DC 12V/1A ADAPTER	1	YES
PHONE CORD	1	YES
PHONE SOCKET	1	YES
FEMALE SMA ANTENNA	1	YES
OPERATING MANUAL	1	YES

ARISTEL NETWORKS PTY. LTD
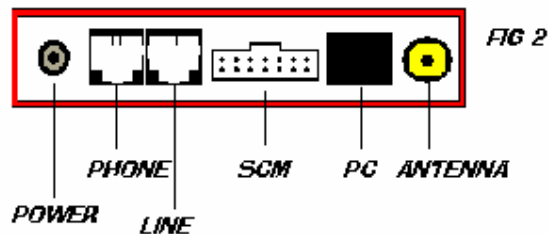
Installation

1. **SIM card installation (Fig 1)**
   1.1 Remove the 12V adaptor from the CTM3000
   1.2 Remove the SIM card cover from the bottom of the unit
   1.3 Slide the SIM card holder towards the front of the unit
   1.4 Lift up the holder
   1.5 Insert the SIM card (Note orientation of notched corner)
   1.6 Replace holder and slide towards the rear of the unit to lock in place
   1.7 Replace cover and power adaptor
2. **Connecting the Antenna (Fig 2)**
   2.1 Screw on the antenna cord to the connector on the front of the unit
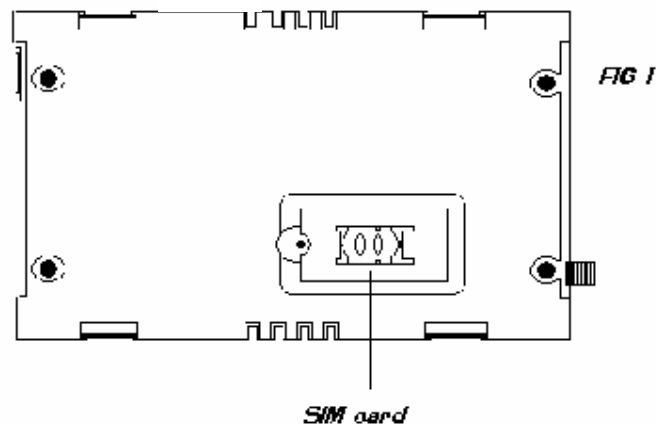   2.2 Place antenna away from electrical/electronic systems (computers, microwave ovens, etc)
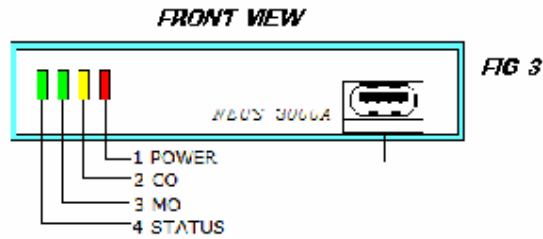3. **Connecting the Telephone line and Telephone system (Fig 2)**
   3.1 If connecting to a phone line, plug the line into the connector marked LINE. Plug your telephone into the connector marked PHONE. Go to step 3.3
   3.2 If connecting to a phone system, plug the PBX CO line connection into the connector marked PHONE.
   3.3 Connect the power adaptor into the connector marked PWR
   3.4 The red POWER indicator should be on.

FIG 2

PHONE   SCM   PC ANTENNA

POWER   LINE

REAR VIEW

Bottom view

FIG 1

SIM card

ARISTEL NETWORKS PTY. LTD

FRONT VIEW

FIG 3

1 POWER
2 CO
3 MO
4 STATUS

LED status indicators (FIG 3)

LED Position	LED colour	LED Activity	Description
1	RED	ON OR OFF	DC POWER IS ON OR OFF
4	GREEN	OFF	THE UNIT IS OFF, IN SLEEP OR ALARM MODE
4	GREEN	FLASH (0.6 SEC ON / 0.6 SEC OFF)	NO SIM CARD, NO PIN ENTERED OR NETWORK SEARCHING
4	GREEN	FLASHING (0.075 SEC ON / 3 SEC OFF	NO SIM CARD
4	GREEN	ON	CONNECTED TO REMOTE PARTY
2 & 3	GREEN & YELLOW	BOTH ON	CTM3000 IS IN IDLE CONDITION
2 & 3	GREEN & YELLOW	FLASHING (0.05 SEC ON / 0.05 SEC OFF)	IN CALL FORWARD MODE
2 & 3	GREEN & YELLOW	YELLOW OFF & GREEN ON	ANSWERING PSTN CALL
2&3	GREEN & YELLOW	YELLOW ON & GREEN OFF	ANSWERING GSM CALL

ARISTEL NETWORKS PTY. LTD

Using the CTM3000

Stand-alone (no Telephone System)

Programme the CTM3000 with the remote number to be forwarded to.
Incoming call is answered by CTM3000.
Answering tone burst is heard by caller.
Call is forwarded to remote number as programmed **Or**
Incoming call is answered by CTM3000.
Answering tone burst is heard by caller.
Caller dials in the destination number and the password
Call is forwarded to remote number.

Connected as an extension on a Telephone System

Program the Telephone system to have the CTM3000 in the ring group
Programme the CTM3000 with the remote number to be forwarded to.
Incoming call is answered by CTM3000.
Answering tone burst is heard by caller.
Call is forwarded to remote number as programmed **Or**
Program the Telephone system to have the CTM3000 in the ring group
Incoming call is answered by CTM3000.
Answering tone burst is heard by caller.
Caller dials in the destination number and the password
Call is forwarded to remote number.

ARISTEL NETWORKS PTY. LTD

Programming Features

Press 999 to reset the unit back to Factory Default Settings

Feature	Func. Code	Description	Default Value
Program password	*????	Password used to enter Setup or program mode	1234
Random password	*????	Password used if caller dials destination number	6789
Call Forward enable	981#	Allows the CTM3000 to forward an answered call	enabled
Delay time enable	993#	Enables inter-digit pause	1
Appointed mode	995#	Enables the destination to be the programmed number	enabled
Bi-Directional	992#	Allows both PSTN to GSM and GSM to PSTN calls	enabled
PTG number *(PSTN to GSM)*	2???#	Program the destination GSM number	200000
GTP number *(GSM to PSTN)*	3???#	Program the destination PSTN number	311111
Delay before forwarding	4??#	Sets time before call fwd occurs. ?? = 01~99 in units of 500m Secs.	03
Ring times	5??#	Sets the number of rings before CTM3000 answers incoming call. ?? =01~99	03
Busy tone frequency	983#	Selects the frequency of busy tone	620KHz

ARISTEL NETWORKS PTY. LTD

Programming Options.

Appointed Mode (995#)

The CTM3000 will ring to an incoming call from the PSTN or GSM and provide an answer tone (tone A) for one second.
The CTM3000 will dial the pre-programmed destination number after a pause of 1.5 seconds.

Random Mode (996)

The CTM3000 will ring to an incoming call from the PSTN or GSM and provide an answer tone (tone B) for one second.
The CTM3000 will then wait for the caller to enter the "random password" and the destination number. The caller has 20 seconds to enter the digits.

PROGRAMMING INSTRUCTIONS AND DETAILS

Entering Programming Mode

1. Lift off the handset of the telephone connected to the "phone" jack.
2. You will hear dial tone. Go to step 5
3. Call the CTM3000. (either PSTN or GSM)
4. CTM will answer and provide an answering tone (A or B)
5. Enter the programming password (default = *1234)
   a) If the password is correct, a programming tone (tone C) will be heard for 2 seconds. You are now in programming mode
   b) If the password is incorrect, the call will be disconnected.
6. You can now program any of the features as listed
   a) If programming of a feature is successful, a confirmation tone (1 burst of 05. sec on and 0.5 sec off) will be heard. You can continue to program
   b) If the programming of a feature fails, a rejection tone (3 bursts of 05. sec on and 0.5 sec off) will be heard. You can then re-enter the data and continue to program.
   c) If you do not enter any data for 6 seconds, the CTM3000 will exit from programming mode.
   d) To exit programming mode, either do not enter any data for 6 seconds, or just hang-up the telephone

Passwords

NOTE! If the random password is the same as the programming password, random mode will not be available.

Programming Password

Press 0 xxxx# where xxxx can be any 4 digit number from 0000 to 9999

Random Password

Press 1 xxxx# where xxxx can be any 4 digit number from 0000 to 9999

Operating Modes

Appointed Mode

Press 995# to select appointed mode

Random Mode

Press 996# to select random mode

Appointed Number

One way (PSTN to GSM)

Press 991# to select one way direction only

Bi-directional (PSTN to GSM and GSM to PSTN)

Press 992# to select bi-directional working

Appointed PTG (PSTN to GSM) number

Press 2 x…x# where x…x can be 29 digits maximum

Appointed GTP (GSM to PSTN) number

Press 3 x…x# where x…x can be 29 digits maximum

Delay between digits

Press 993# to enable the delay between digits (250mSeconds)

Press 994# to disable the delay between digits (250mSeconds)

Forwarding delay time

Press 4xx# to enter the delay time where xx is from 01 to 99 in 0.5 second increments

Number of rings before answer

Press 5xx# to enter the number of rings before the CTM3000 answers an incoming call, where xx can be from 01 to 99.

Busy Tone learning

Press 985# to set the busy tone frequency to default (480Hz and 620Hz)

Press 990# to enter "Busy Tone Learning" mode. Hang up the telephone after approximately 30 seconds when you hear an acknowledgement tone. The CO yellow LED will flash 3 times if the learning was successful. The CTM3000 can now recognise the carrier busy tone signal

Other features/options

Press 981# to enable the CTM3000 to forward calls

Press 982# to disable the call forward feature

Press 999# to reset the CTM to factory default values