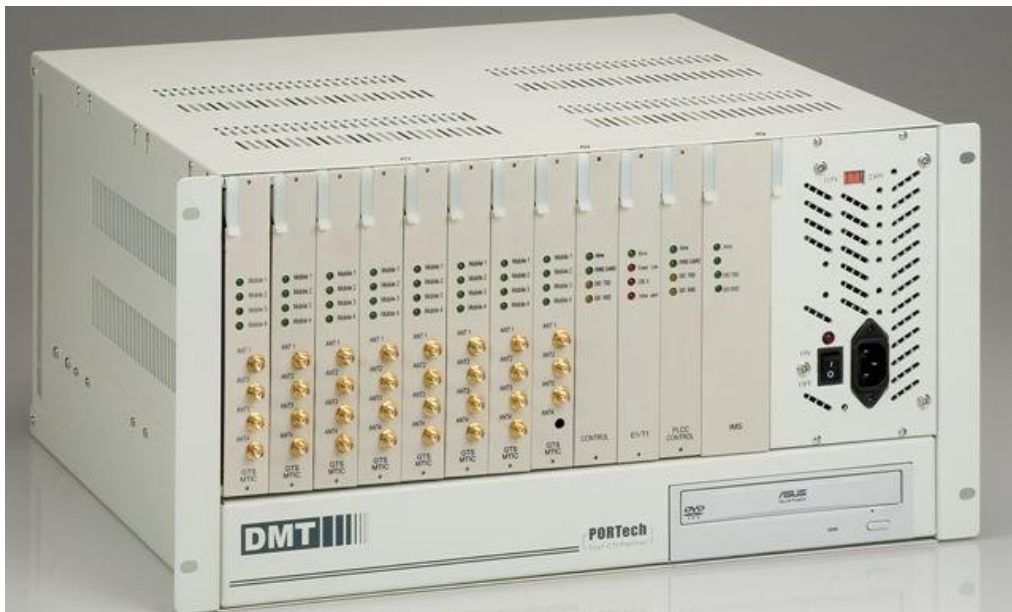


# DMT

## E1/T1 GSM Channel Bank

### User Manual



**PORTech Communications Inc.**

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## 1. Introduction

Digital Mobile Trunk (DMT) accepts incoming call from E1/T1 PRI of PSTN or PBX or VoIP Trunk Gateway and chooses one GSM channel to dial out according to the prefix of the destination mobile number. In this way, we can have least cost routing (LCR). DMT can provide Call Detail Record (CDR) for traffic and accounting management.

- ✓ Besides PRI to GSM, you may also apply GSM to PRI (two ways).
- ✓ Besides GSM, you may also apply CDMA (WCDMA or CDMA2000)/UMTS.
- ✓ GSM ,CDMA can be mixed in one DMT

## 2. Products illustration

Please contact our agents if there are any parts missing.

### 2.1 Hardware

Antenna box  
Power cord  
Network cable  
DMT CD(include OS)

### 2.2 「DMT」 Main Body

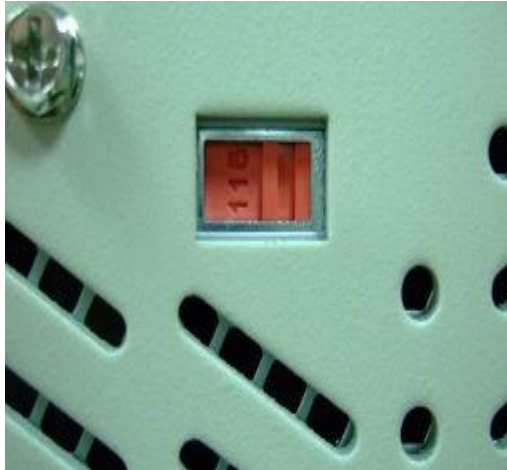


3. Dimension: 43d×48w×24h cm

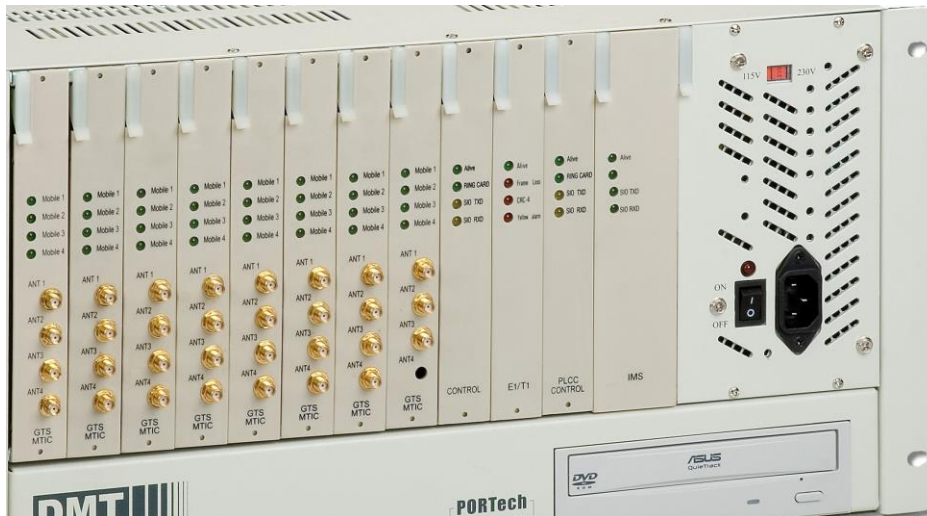
4. Chart of the device

#### 4.1 Turn on DMT

Please check power voltage (110-120V or 220-240V), then turn on.



#### 4.2 Light signal (right to left)



##### 1) IMS

- ◆ Alive (Every flicker for 3 seconds)
- ◆ STO TXD: Light on when sending to GTS Card
- ◆ STD RXD: Light on when receiving from GTS Card

##### 2) PLCC Control

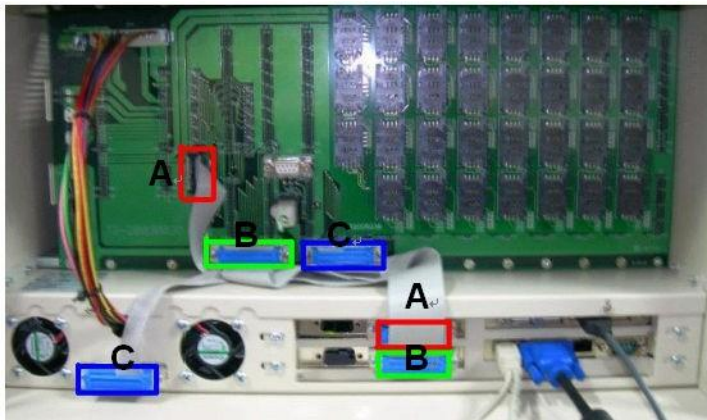
- ◆ Alive
- ✓ Normal: light on for 3 seconds, off for 3 seconds by turns
- ✓ Disconnect: Light on for 1 second, off for 1 second
- ◆ STO TXD: Light on when sending to GTS card

- ◆ STD RXD: Light on when receiving from GTS Card
- 3) E1/T1
- ◆ Alive (light on for 3 seconds, off for 3 seconds by turns)
  - ◆ Frame Loss, CRC-4, and Yellow alarm light only when E1 got trouble.
- 4) GTS MTIC: Flickering in 2 seconds by turns

#### NOTE:

If everything is settle down, but no signal shows on the monitor; please try Crtl+Alt+F1 to remove Screen Saver mode

#### 4.3 Back of DMT



- 1) Connect to monitor, mouse, keyboard and network.
- 2) A to A; B to B; C to C (The connecting is settled down)

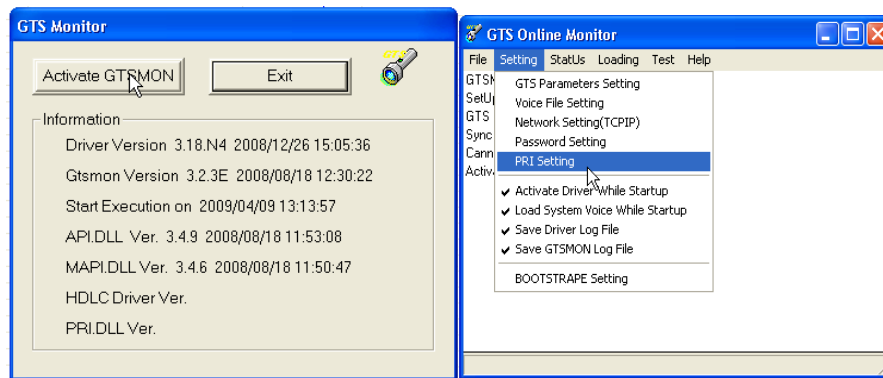
## 5. System Setting

5.1 Enter the default password: PORTech

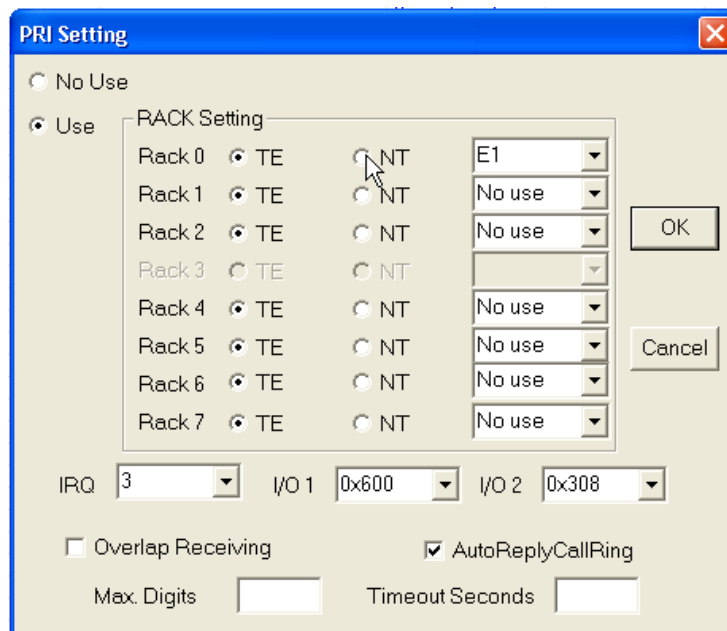
5.2 Click GTS Monitor on bottom right



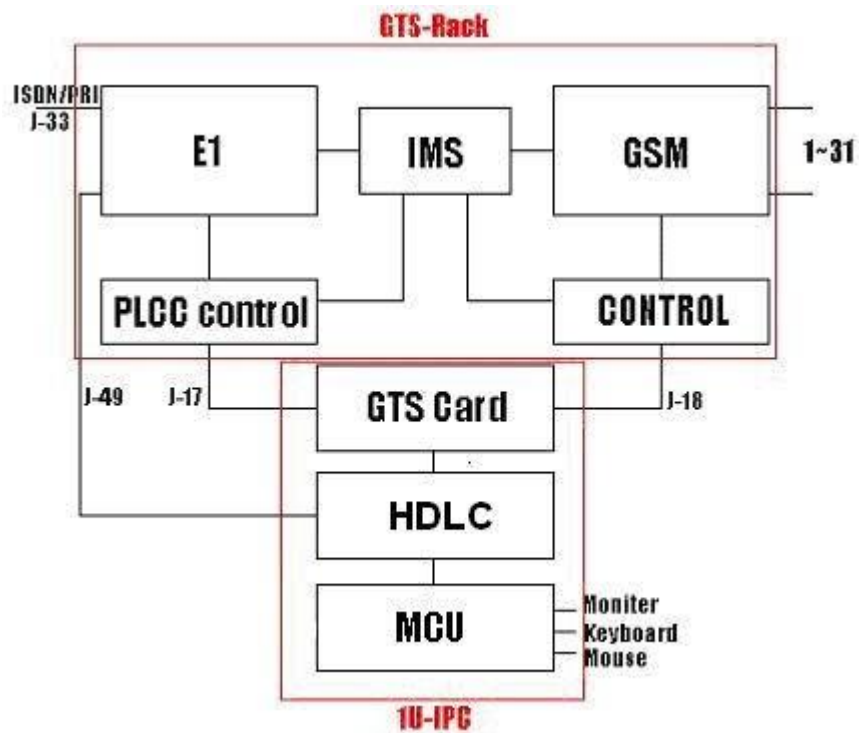
5.3 Activate GTSMON → Setting → PRI Setting



- 1) Rack 0 is for E1
- 2) The parameter of TE and NT can not be the same as front end device (Trunk Gateway or others)



## 6. Structure of DMT(E1/T1 PRI)



## 7. DMT System Parameters Setup

### 7.1 Line/Talk Times

**System Parameters Setup**

Line/Talk Time | System | CDR/Misc. | SCE | Short Message

MTIC Mapping Type

☐ 1. E1 channel/MTIC one by one

☐ validate prefix for incoming call

☐ play busy tone while outgoing line not ready

☒ 2. choose MTIC according to prefix

☒ cyclic ☐ first available

☐ search prefix in multiple groups

☐ if not available, allow to use other group

MTIC Total Talk Time Limit

☐ no limit ☐ restrict without alert

☒ restrict and alert in  minutes

☒ force to cut line when exceed talk time

Talk Time Limit for Each Call

☒ no limit ☐ restrict for  minutes

Number Portability Database

☐ check number portability database

NP ODBC name

UserID  Password

☐ Log real talk time in CDR

No available line reject code

### 7.1.1 MTIC Mapping Type

#### 1) E1 Channel/ MTIC one by one

When you select type 1), DMT E1-PRI (channel 0 to 29) will go with MTIC (channel 32 to 62).

- For example, when an incoming call from E1 (channel 0), it will be dialed out from MTIC (channel 32); an incoming call from E1 (channel 1) will be dialed out from MTIC (33); an incoming call from E1 (channel 29) and dialed out from MTIC (61).
- In that way, if MTIC (channel 62) doesn't go with any line of E1, the channel 62 won't be used.

There are two other functions:

- Validate prefix for incoming call: to select incoming call by prefix number.
- Play busy tone while outgoing line not ready: if MTIC is not ready, E1 Channel will answer busy tone.

#### 2) Choose MTIC according to prefix



When you select type 2), E1-PRI will dial out the call according to prefix groups of MTIC; and divided into “cyclic” and “first available”

There are two other functions:

- Search prefix in multiple groups
- If not available, allow to use other group

#### 7.1.2 MTIC Total Talk Time Limit

You can setup talk time limit for each MTIC SIM Card.

- Not limit
- Restrict without alert
- Restrict and alert in ( ) minutes

\*E.g. when user reaches the talk time limit, it will send out DO DO tone to alert

\*force to cut line when exceed talk time

#### 7.1.3 Talk Time Limit for Each Call

In this type, you can select to setup the limit minutes of each talk.

#### 7.1.4 Number Portability Database

In this part, you can check number portability databases

- If yes, you need to input User ID and Password

#### 7.1.5 Log real talk time in CDR

To setup the real talk time minutes in CDR

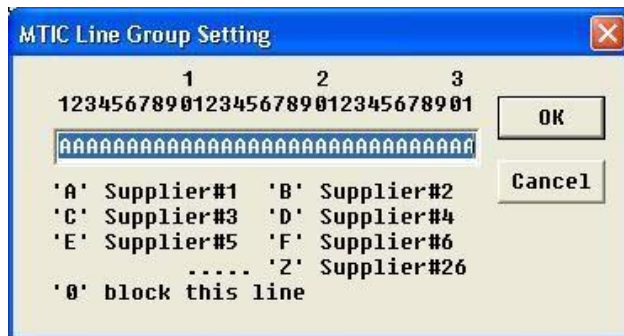
- If you don't mark this, the system will write your billing charge according to your GSM operator into CDR database

#### 7.1.6 Not available line reject code

- When there's incoming call from E1 but cant' find any available MTIC line, it will report to Protocol Q931

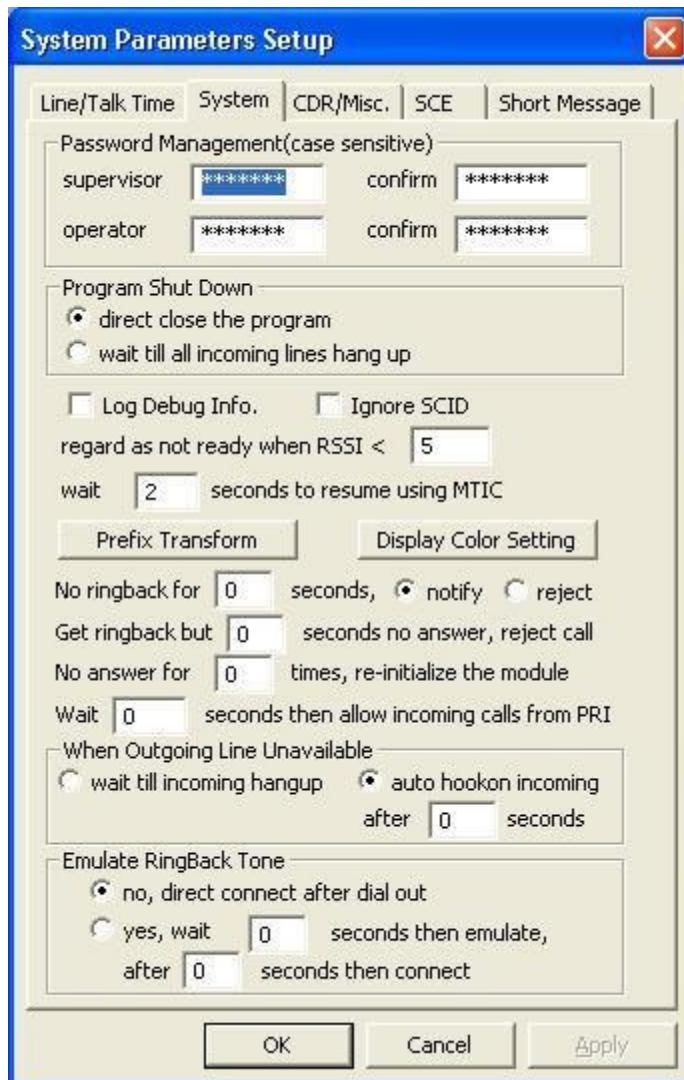
#### 7.1.7 Line / Group Settings:

Here's screen shot showing all the setting



- You can make open use and line group setting for 31 ports of MTIC.
- If you put "0", the line will be blocked.
- Total: 26 groups (A to Z)

## 7.2 System



### 7.2.1 Password Management

Please input a series password to enter DMT

- There are two password managements: “Supervisor” and “Operator”
- When “operator” is selected, the user can’t revise any parameters in the system, only checking data is available.

#### 7.2.2 Program Shut Down

- Direct close the program: the user can direct end the all system.
- Wait till all incoming lines hang up: Until all incoming lines hang up, the user may close the system.

#### 7.2.3 Log Debug Info

- When you mark this, DMT will automatically save all the following process for debug
- Remember to close this function when log debug is done because it will take lots of CPU-Time and Discs Space.

#### 7.2.4 Ignore SCID

Normally, after registering GSM operator, the SIM Card message will be showed up during MTIC process.

- If mark it, you can choose to show SIM Card information or not when MTIC is starting.
- Otherwise, MTIC will be ready while registering is done.

#### 7.2.5 Regard as not ready when RSSI < 5

MTIC will show the intension of internet signal, and the maximum will be 31

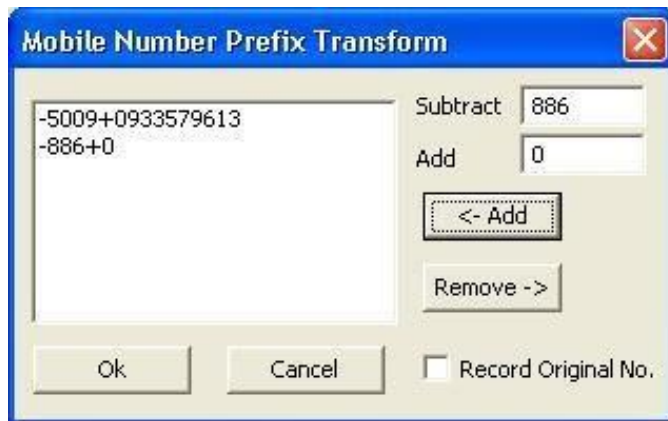
- E.g. MTIC should not be used when the signal value is under 5.

#### 7.2.6 Wait 2 seconds to resume using MTIC

- E.g. MTIC will wait for 2 seconds after another call coming

#### 7.2.7 Prefix Transform

Here is screen shot in this parameter:



To setup Mobile Number with “Subtract” and “Add” function:

- E.g. As the above picture, the setup value is -886+0  
So when E1 receive the number “8869331234”, it will transfer the number to “09331234” and dial out.

#### 7.2.8 Display Color Setting

You can use your favorite colors to indicate DM T free time and answers status.

#### 7.2.9 No ringback for 0 seconds notify or reject

To setup the ringback seconds while MTIC is dialing out.

- To Notify Do Do alert or Reject the calls when there’s no answer within setting time
- E.g. If the setup value is 0, it won’t response any ringback.

#### 7.2.10 Get ringback but 0 seconds no answer, reject call

To setup the response within ringback seconds while MTIC is dialing out

- To Reject the calls when there’s no answer within setting time
- E.g. If the set value is 0, it won’t response any ringback.

#### 7.2.11 No answer for 0 times , re-initialize the module

- When there’s continuous no answers for couple times, it will re-initialize the MTIC system.
- E.g. If the value is 0, it won’t make the difference.

#### 7.2.12 Wait 0 seconds then allow incoming calls from PRI

- To setup the waiting seconds to allow incoming calls while DMT system is settle down.
- Mostly, when DMT is done, E1 channel will be ready before MTIC

channel.

- In that way, you can adjust the waiting time for MTIC to prepare.

#### 7.2.13 When Outgoing Line Unavailable

- If all MTIC channel are busy and can't go with outgoing E1 channel, you can make the calls to wait till incoming hang up or auto hook on incoming after 0 seconds.

#### 7.2.14 Emulate RingBack Tone

MTIC line will take a little time while receiving the ringback tone.

- By this part, you can emulate ringback tone for this blank time or not
- If yes, you need to setup the period of ringback time after MTIC is dialing out and how long to stop the connection time
- When MTIC is receiving the real ringback tone, the system will automatically stop the emulating tone.

### 7.3 CDR/Misc.

**System Parameters Setup**

Line/Talk Time | System | **CDR/Misc.** | SCE | Short Message

Write 'Left Seconds' into SIM Card

☒ disable ☐ when switch SIM card  
☐ each call ☐ every 0 minutes

E1 Trunk Group Information

name EEEEEEEE ID 1

CDR Backup

☒ disable ☐ enable, path=

CDR Database

☐ write CDR into database  
CDR ODBC name CDRDB  
UserID root Password

Write CDR Information According To

☐ GSM no. entered ☒ SIM Card ID

Speech Codec Bearer Capability(only for Siemens TC35i)

☒ Full rate preferred ☐ Half rate preferred  
☐ Half rate disabled

Redial When Remote Busy

Maximum dial 1 times GSM congestion

OK Cancel Apply

#### 7.1.2 Write “Left Seconds” into SIM Card

In this part, you can decide whether to write (record) left seconds into SIM card.

- If no, please mark “disable”
- If yes, you can make the record timing; like after each call, when switch SIM card or after every (\_\_) minutes

#### 7.1.3 E1 Trunk Group Information

- Enter the name of DMT and ID for your reference

#### 7.1.4 CDR Backup

- If backup is necessary, please mark “enable” and enter the path for CDR backup save.

#### 7.1.5 CDR Database

- Write CDR into database, and put those following information
  - \* CDR ODBC name
  - \* User ID and password.

#### 7.3.5 Write CDR Information According To

- To decide to write CDR information into GSM no. or SIM Card ID

#### 7.3.6 Speech Codec Bearer Capability(only for Siemens TC35i)

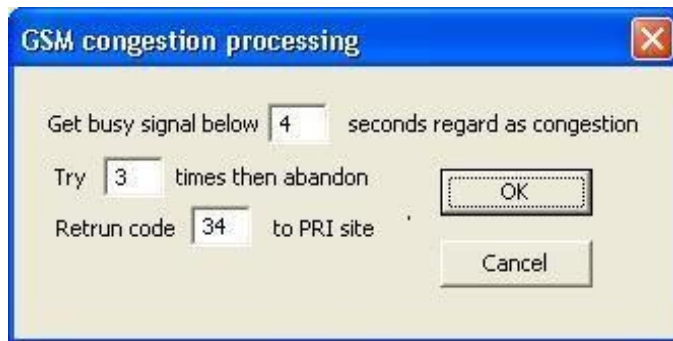
- If your DMT is Siemens TC35i, you can use Speech Codec Bearer Capability

#### 7.3.7 Redial When Remote Busy

- To setup remote busy times after MTIC line is dialing out.
- If not, please input 0 for it.

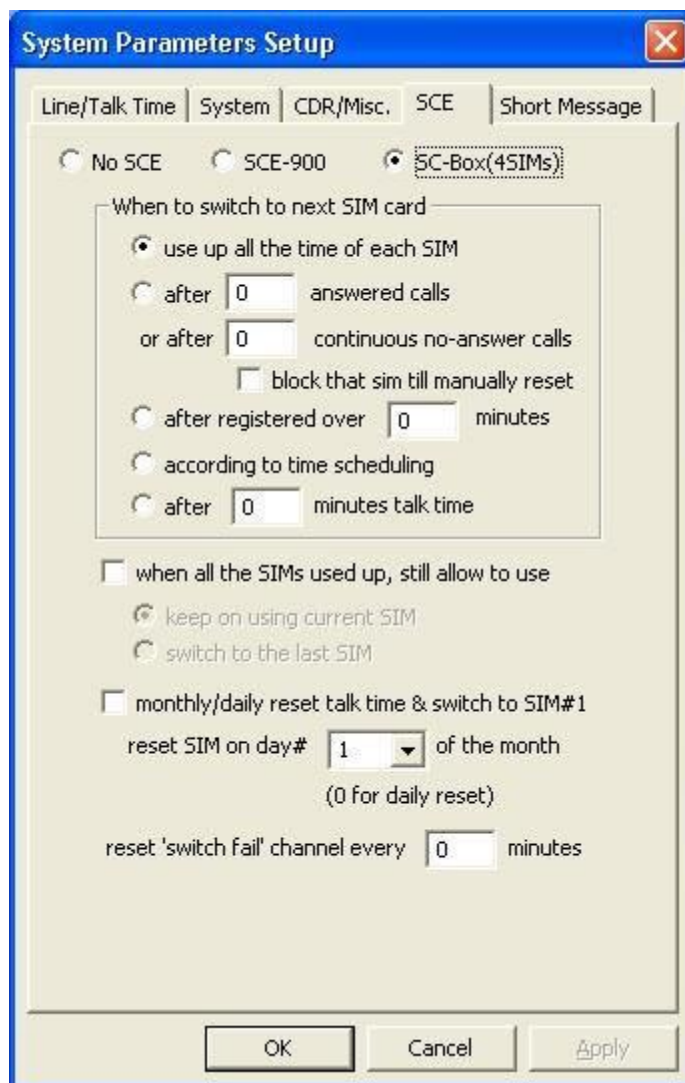
#### 7.3.8 GSM congestion

Here is screen shot in GSM congestion processing



- To define the period of busy signal regard as line congestion
- To try (\_\_) times then abandon
- To return code (\_\_) to PRI site

#### 7.4 SCE



##### 7.4.1 To select SCE type to accommodate with DMT

- No SCE(SCB)

- SCE-900
- SC-Box

#### 7.4.2 When to switch to next SIM Card

To select the timing when to switch the next SIM card

- Use up all the time of each SIM
- After ( ) answered calls or after ( ) continuous no-answer calls; block that SIM till manually reset
- After registered over ( ) minutes
- According to time schedule
- After ( ) minutes talk time

#### 7.4.3 when all SIMs used up, still allow use

To continue using SIM card while all SIMs card are used up

- If yes, please select keep on using current SIM or switch to the last SIM

#### 7.4.4 monthly/daily reset talk time & switch to SIM#1

- To setup whether to monthly/daily reset talk time & switch to SIM#1 or not

#### 7.4.5 reset SIM on day# 1 of the month (0 for daily reset)

- To setup the day of the month to reset SIM
- E.g. If you input "0" on it, it will reset SIM talk time everyday

### 7.5 Short Message



**System Parameters Setup**

Line/Talk Time | System | CDR/Misc. | SCE | **Short Message**

Short Message Database Information

ODBC database name

UserID  Password

process database every  seconds

read out  records each time

☐ MySQL DB

Check received SM every  seconds

Regard as send fail after  seconds

Retry  times then abort sending out

OK Cancel Apply

#### 7.5.1 Short Message Database Information

- In this part, you can setup the type of short message: ODBC or SQL
- User ID and password
- process database every ( ) seconds
- Read out ( ) records each time

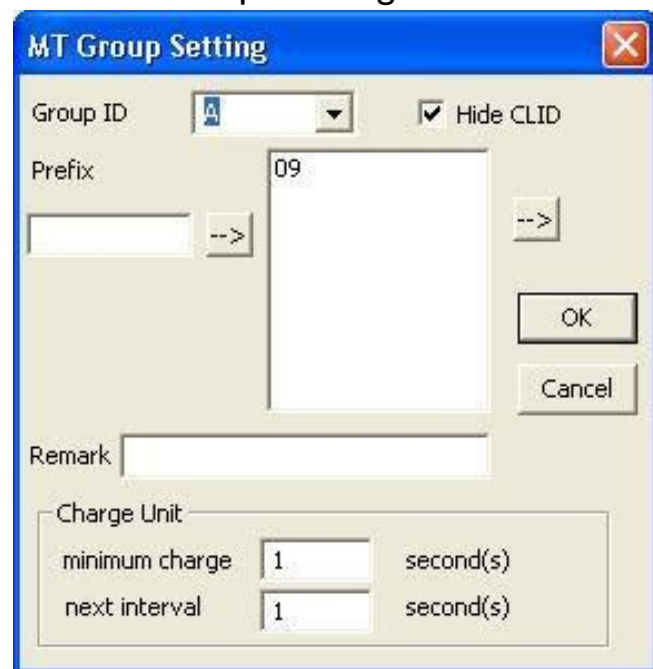
#### 7.5.2 Check received SIM every ( ) seconds

- E.g. If you input 60, it will check received SM every 60 seconds

#### 7.5.3 Regard as send fail after 60 seconds Retry 3 times then abort sending out

- if short message is failed, you can setup the retry seconds and times

## 8. MT Group Setting



MT Group Setting

Group ID  ☒ Hide CLID

Prefix

Remark

Charge Unit

minimum charge  second(s)

next interval  second(s)

OK Cancel

In the setting, you have to define the group ID for number prefix

- If you select “Hide CLID”, MTIC line will send out like hidden call with #31# number
- Besides that, you need to setup the Charge Unit for minimum charge seconds and next interval seconds

8.1 Here's the DMT screen shot while you click the right button on the mouse:

DMT Call Transfer System(4.4.8.1)												
File View Test Help												
Line/Attr.	GSM Information	SIM Card ID	Status	Left Seconds	Start Tm.	Elapse	CLID	Transfer No.	Conn.	Talk Tm.	Duration	Ans/Use
0 E1-Trunk 1		Channel Enabled	Conn...		10:44:17	9(9)	23...	0937183881	32			2/3
1 E1-Trunk 2		Channel enabled	Idle								0/0	
2 E1-Trunk 3		Channel enabled	Idle								0/0	
3 E1-Trunk 4		Channel enabled	Idle								0/0	
4 E1-Trunk 5		Channel enabled	Idle								0/0	
5 E1-Trunk 6		Channel enabled	Idle								0/0	
6 E1-Trunk 7		Channel enabled	Idle								0/0	
7 E1-Trunk 8		Channel enabled	Idle								0/0	
8 E1-Trunk 9		Channel enabled	Idle								0/0	
9 E1-Trunk 10		Channel enabled	Idle								0/0	
10 E1-Trunk 11		Channel enabled	Idle								0/0	
11 E1-Trunk 12		Channel enabled	Idle								0/0	
12 E1-Trunk 13		Channel enabled	Idle								0/0	
13 E1-Trunk 14		Channel enabled	Idle								0/0	
14 E1-Trunk 15		Channel enabled	Idle								0/0	
15 E1-Trunk 16		Channel enabled	Idle								0/0	
16 E1-Trunk 17		Channel enabled	Idle								0/0	
17 E1-Trunk 18	Reset Mismatched Left Seconds		Idle								0/0	
18 E1-Trunk 19	Reset Switch-Fail Lines		Idle								0/0	
19 E1-Trunk 20	Change New SIM Card (Single Line)		Idle								0/0	
20 E1-Trunk 21	Change New SIM Card (Multi Lines)		Idle								0/0	
21 E1-Trunk 22	Scheduling to Switch SIM Card (Multi Lines)		Idle								0/0	
22 E1-Trunk 23	Monthly/Daily Reset Talk Time		Idle								0/0	
23 E1-Trunk 24	Pause Use		Idle								0/0	
24 E1-Trunk 25	Resume Use		Idle								0/0	
25 E1-Trunk 26	Edit GSM Number		Idle								0/0	
26 E1-Trunk 27	Force to Cut Off Line		Idle								0/0	
27 E1-Trunk 28	GSM Trunk Handle Strategy		Idle								0/0	
28 E1-Trunk 29	30 Chungghwa	89886920027025908522	Conn...	41975	10:44:17	9(9)		0937183881	0		2/3	
32 Trunk-A 1 h	22 Chungghwa	89886920027025908571	Idle	41955							0/0	
33 Trunk-A 2 h	18 Chungghwa	89886920027025908589	Idle	42000							0/0	
34 Trunk-A 3 h												

8.2 There are several extra functions as follows:

8.2.1 Change New SIM Card ( Single Line ) — see the picture below

Setup 'Total Talk Time'

setup line# 32 talk time(in seconds)

first SIM start from #

1

OK

last SIM #

4

All assign as right

42000

in seconds

Cancel

current use SIM #

1

talk time(in seconds)

'radio' as blocked, 'checked' as top priority SIM card

<input type="radio"/> #1	41881	<input type="checkbox"/>	<input type="radio"/> #2	42000	<input type="checkbox"/>	<input type="radio"/> #3	42000	<input type="checkbox"/>	<input type="radio"/> #4	42000	<input type="checkbox"/>
<input type="radio"/> #5	0	<input type="checkbox"/>	<input type="radio"/> #6	0	<input type="checkbox"/>	<input type="radio"/> #7	0	<input type="checkbox"/>	<input type="radio"/> #8	0	<input type="checkbox"/>
<input type="radio"/> #9	0	<input type="checkbox"/>	<input type="radio"/> #10	0	<input type="checkbox"/>	<input type="radio"/> #11	0	<input type="checkbox"/>	<input type="radio"/> #12	0	<input type="checkbox"/>
<input type="radio"/> #13	0	<input type="checkbox"/>	<input type="radio"/> #14	0	<input type="checkbox"/>	<input type="radio"/> #15	0	<input type="checkbox"/>	<input type="radio"/> #16	0	<input type="checkbox"/>
<input type="radio"/> #17	0	<input type="checkbox"/>	<input type="radio"/> #18	0	<input type="checkbox"/>	<input type="radio"/> #19	0	<input type="checkbox"/>	<input type="radio"/> #20	0	<input type="checkbox"/>
<input type="radio"/> #21	0	<input type="checkbox"/>	<input type="radio"/> #22	0	<input type="checkbox"/>	<input type="radio"/> #23	0	<input type="checkbox"/>	<input type="radio"/> #24	0	<input type="checkbox"/>
<input type="radio"/> #25	0	<input type="checkbox"/>	<input type="radio"/> #26	0	<input type="checkbox"/>	<input type="radio"/> #27	0	<input type="checkbox"/>	<input type="radio"/> #28	0	<input type="checkbox"/>
<input type="radio"/> #29	0	<input type="checkbox"/>	<input type="radio"/> #30	0	<input type="checkbox"/>	<input type="radio"/> #31	0	<input type="checkbox"/>	<input type="radio"/> #32	0	<input type="checkbox"/>

☐ Reset 'Already Talk Time'

Unblock all SIMs

- 19 -

Please Notice:

The symbol of ○ means “radio as blocked

The symbol of □ means “check as top priority SIM card

- E.g. If ○ is marked in #1, SIM card #1 won't be blocked
- E.g. If □ is marked in #1, SIM card #1 will be the first priority

8.2.2 Change New SIM Card (Multi Lines) — see the picture below



The screenshot shows a Windows-style dialog box titled "Setup 'Total Talk Time'". It contains the following fields and controls:

- A text field labeled "talk time" with the value "700" and the unit "minutes".
- A dropdown menu labeled "first SIM start from #" with the value "1".
- A dropdown menu labeled "last SIM #" with the value "4".
- A dropdown menu labeled "current use SIM #" with the value "1".
- Two checkboxes at the bottom, both of which are checked:
  - ☒ Assign Short Message Count
  - ☒ Reset 'Already Talk Time'
- Two buttons on the right: "OK" and "Cancel".

8.2.3 Scheduling to Switch SIM Card ( Multi Lines ) — see the picture below

**Define the time range for each SIM card**

	Day Of Week	Start Time	~	End Time		Day Of Week	Start Time	~	End Time
#1	1111111	0800	~	1959	#2	1111111	2000	~	0759
#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			~	

Example Day Of Week '1010101' for Sunday,Tuesday,Thursday,Saturday  
 StartTime ~ EndTime '1150' ~ '1459'

OK Cancel

Please Notice:

- Day of Week: The number of "1111111" represents Sunday to Monday, seven "1" means seven days
- If you input "1111111", it means you need to use the SIM card every day
- E.g. If you don't want to use on Sunday, please input "0111111"

8.2.4 Monthly / Daily Reset Talk Time ( Multi Lines ) — see the picture below

**Setup 'Monthly/Daily Reset Talk Time'**

minutes

Talk Time(in minutes)

#1	0	#2	0	#3	0	#4	0
#5	0	#6	0	#7	0	#8	0
#9	0	#10	0	#11	0	#12	0
#13	0	#14	0	#15	0	#16	0
#17	0	#18	0	#19	0	#20	0
#21	0	#22	0	#23	0	#24	0
#25	0	#26	0	#27	0	#28	0
#29	0	#30	0	#31	0	#32	0

☒ Reset according to system parameter setting

☐ reset SIM on day#  of the month

8.3.5 Edit GSM Number — see the picture below

**Setup GSM Information for This Channel**

Channel Remark

Ch#	Mobile Number	SIM Remark	Ch#	Mobile Number	SIM Remark
SIM 1			SIM 17		
SIM 2			SIM 18		
SIM 3			SIM 19		
SIM 4			SIM 20		
SIM 5			SIM 21		
SIM 6			SIM 22		
SIM 7			SIM 23		
SIM 8			SIM 24		
SIM 9			SIM 25		
SIM 10			SIM 26		
SIM 11			SIM 27		
SIM 12			SIM 28		
SIM 13			SIM 29		
SIM 14			SIM 30		
SIM 15			SIM 31		
SIM 16			SIM 32		

8.3.6 GSM Income Handle Strategy— see the picture below





There are four options when calls coming from MTIC line

- 1) Wait till the calling party hang up: ignore the call
- 2) Reject the call automatically
- 3) Answer the call and play a pre-recorded voice file
- 4) Divert the call to PRI channel: Transfer function
  - If you select this one, you need to input the “Outgo called number” (called ID) and “Outgo calling number”(calling ID)
  - Outgo calling ID:
    - \* quote the CLID from GSM: The calling number will be the same as caller number.
    - \* defined as: Input any number you’d like to be calling number

## 9. Q&A

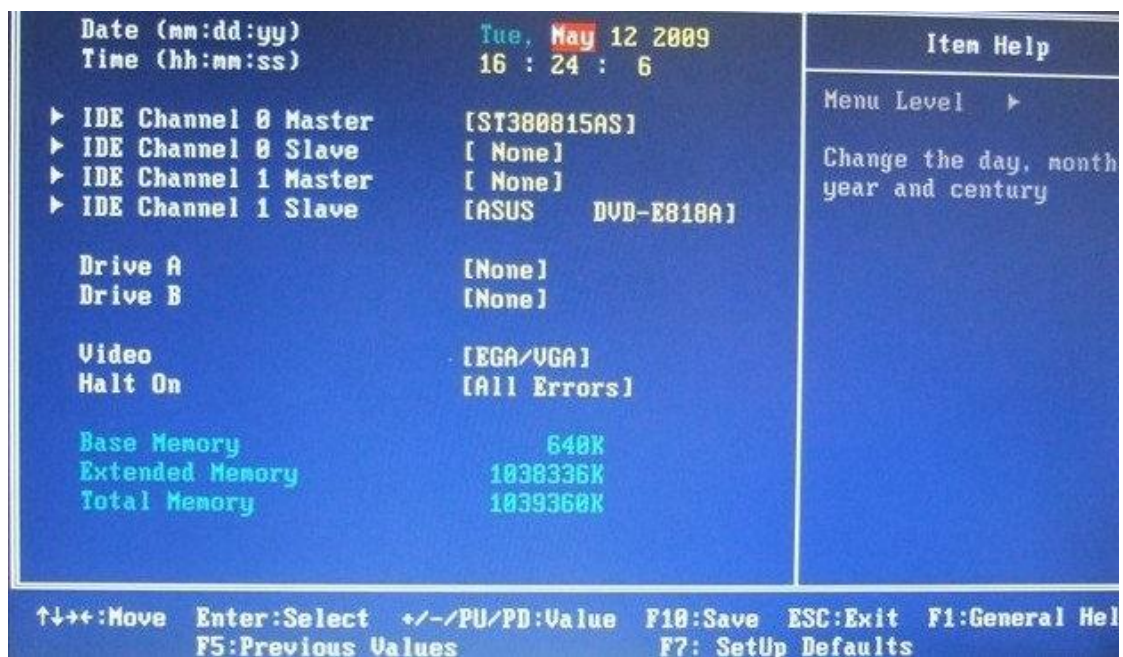
Q1: How to setup Bio system?

A1: Please follow the 12 steps as follows:

Step 1:

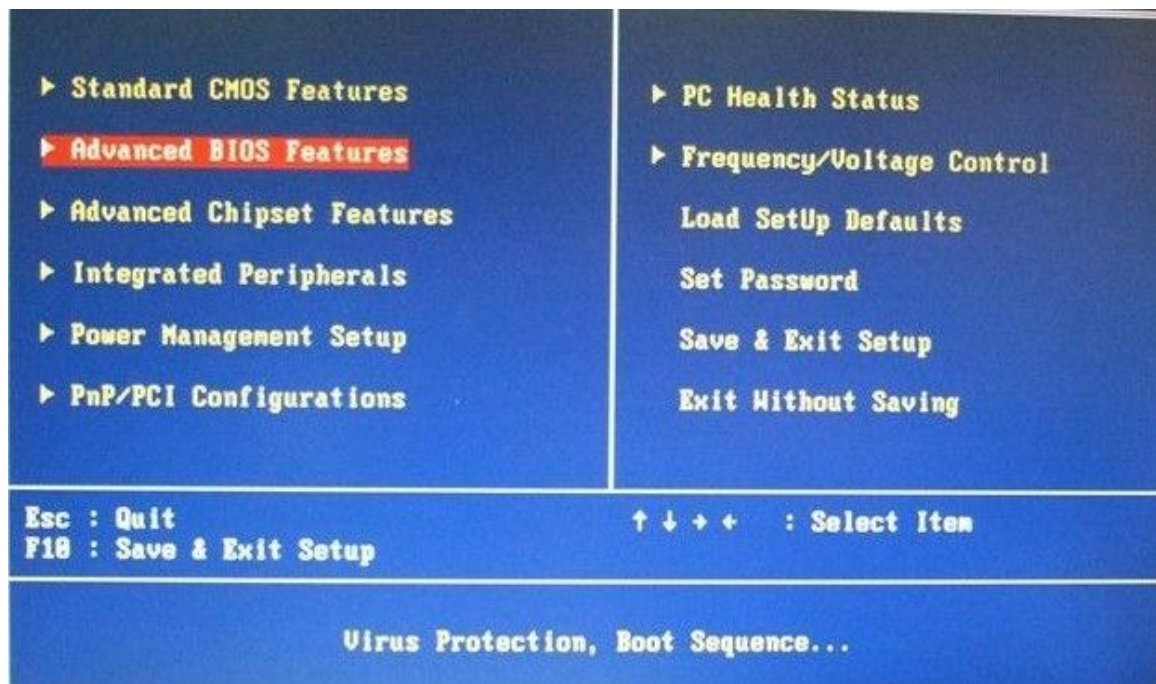


Step 2:

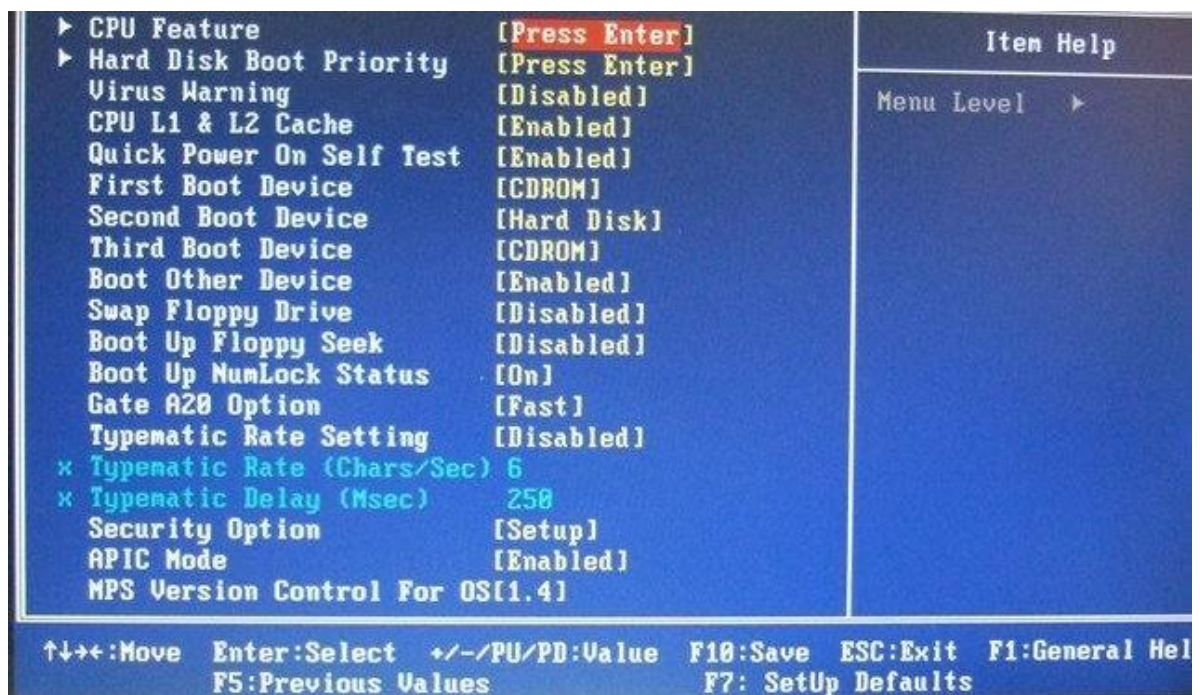


Step 3:





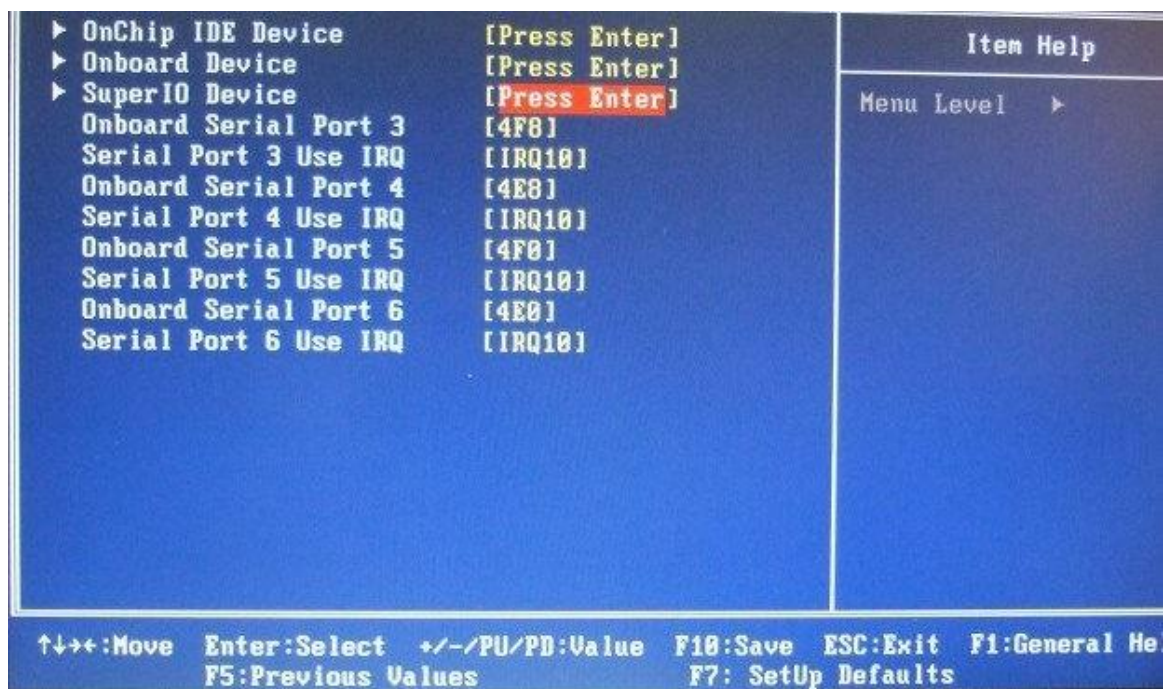
Step 4:



Step 5:



Step 6:



Step 7:



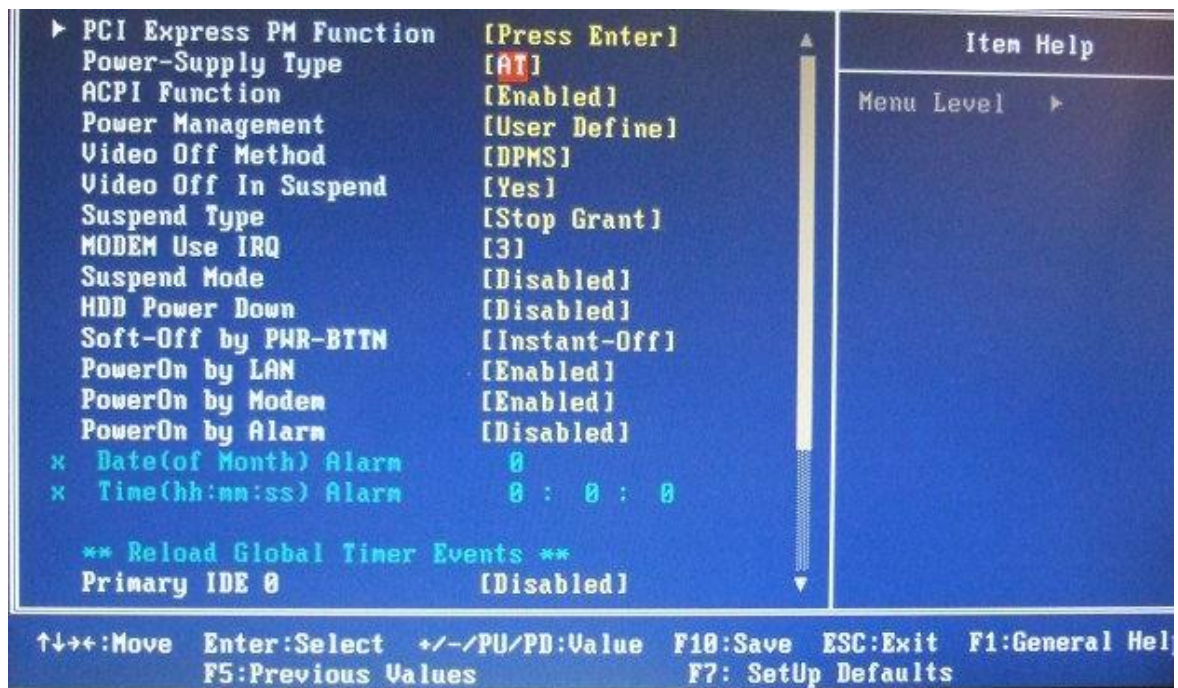
Onboard FDC Controller	[Enabled]	Item Help
Onboard Serial Port 1	[3F8/IRQ4]	
Onboard Serial Port 2	[Disabled]	
× UART Mode Select	Normal	Menu Level ▶
× RxD , TxD Active	Hi,Lo	
× IR Transmission Delay	Enabled	
× UR2 Duplex Mode	Half	
× Use IR Pins	IR-Rx2Tx2	
Onboard Parallel Port	[Disabled]	
× Parallel Port Mode	ECP+EPP	
× EPP Mode Select	EPP1.9	
× ECP Mode Use DMA	3	

↑↓→←:Move    Enter:Select    +/~/PU/PB:Value    F10:Save    ESC:Exit    F1:General Help  
 F5:Previous Values    F7: SetUp Defaults

Step 8:

▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Advanced Chipset Features ▶ Integrated Peripherals ▶ <b>Power Management Setup</b> ▶ PnP/PCI Configurations	▶ PC Health Status ▶ Frequency/Voltage Control Load SetUp Defaults Set Password Save & Exit Setup Exit Without Saving
Esc : Quit F10 : Save & Exit Setup	↑ ↓ → ← : Select Item
Sleep timer, Suspend timer...	

Step 9:



Step 10:



Step 11:



PNP OS Installed	[No]	Item Help
Reset Configuration Data	[Disabled]	
Resources Controlled By	[Manual]	Menu Level ▶  When resources are controlled manually, assign each system interrupt a type, depending on the type of device using the interrupt
▶ IRQ Resources	[Press Enter]	
▶ DMA Resources	[Press Enter]	
PCI/VGA Palette Snoop	[Disabled]	
** PCI Express relative items **		
Maximum Payload Size	[128]	
↑↓→←:Move   Enter:Select   +/-/PU/PD:Value   F10:Save   ESC:Exit   F1:General Help F5:Previous Values                               F7: SetUp Defaults		

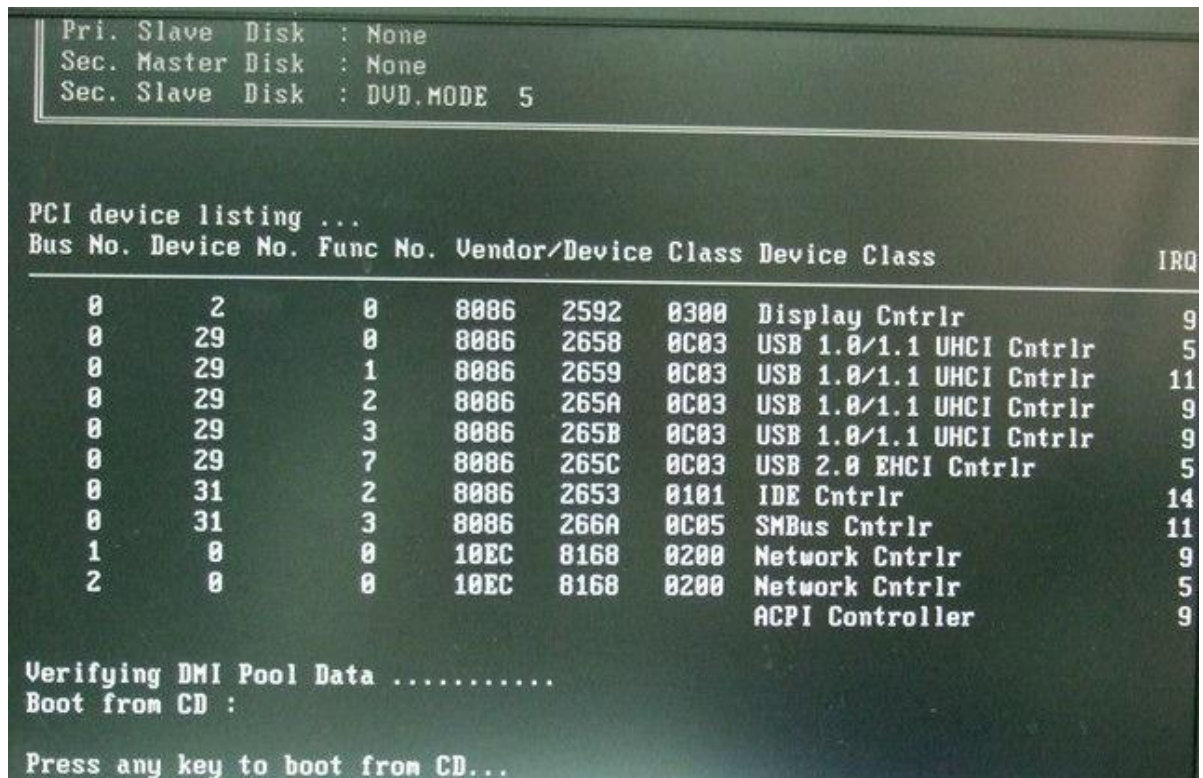
Step 12:

IRQ-3 assigned to	[PCI/ISA PnP]	Item Help  Menu Level ▶  Legacy ISA for devices compliant with the original PC AT bus specification, PCI/ISA PnP for devices compliant with the Plug and Play standard whether designed for PCI or ISA bus architecture
IRQ-4 assigned to	[PCI/ISA PnP]	
IRQ-5 assigned to	[PCI/ISA PnP]	
IRQ-7 assigned to	[Legacy ISA]	
IRQ-9 assigned to	[PCI/ISA PnP]	
IRQ-10 assigned to	[PCI/ISA PnP]	
IRQ-11 assigned to	[PCI/ISA PnP]	
IRQ-12 assigned to	[PCI/ISA PnP]	
IRQ-14 assigned to	[PCI/ISA PnP]	
IRQ-15 assigned to	[PCI/ISA PnP]	
↑↓→←:Move   Enter:Select   +/-/PU/PD:Value   F10:Save   ESC:Exit   F1:General Help F5:Previous Values                               F7: SetUp Defaults		

Q2: How to setup DMT's XP embedded System Recovery Recommend?

A2:

- 1) Put the Recover CD into DMT
- 2) Turn off the power
- 3) Power on and press any key to continue

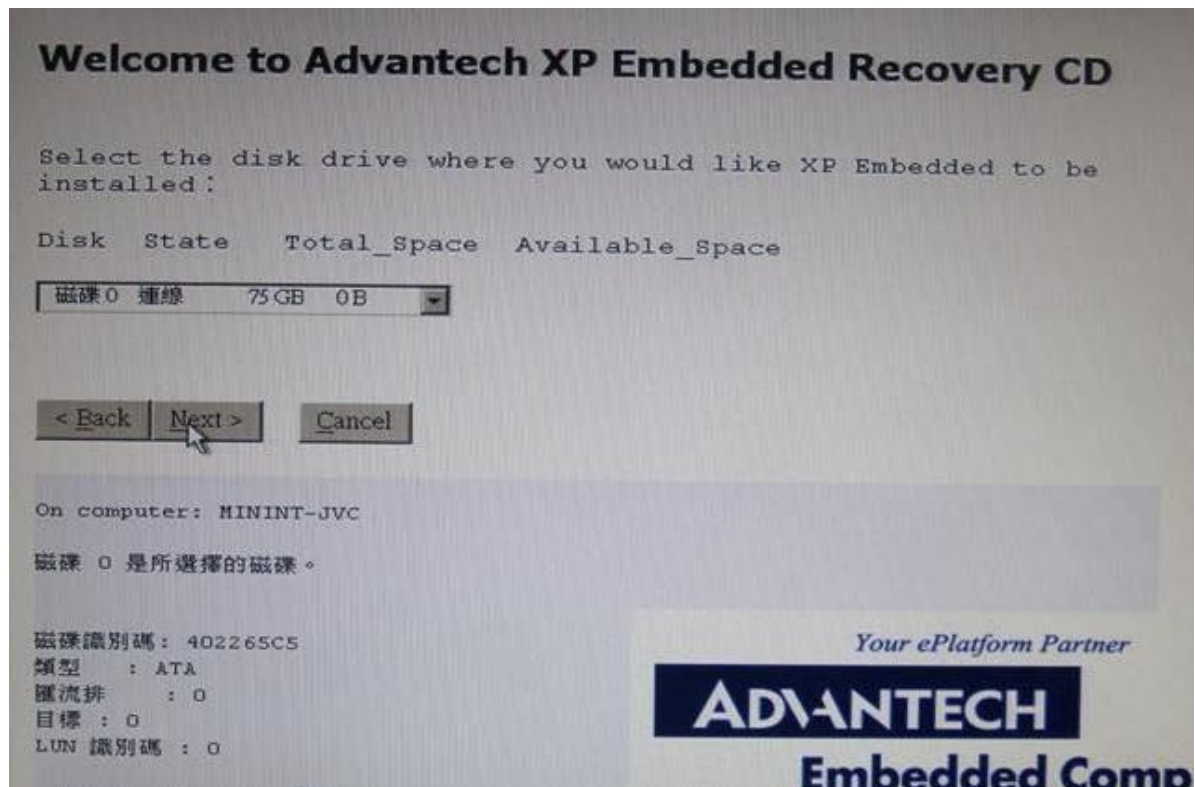


- 4) Welcome to Advanced XP Embedded Recovery CD: choose “English” version, and click “next”

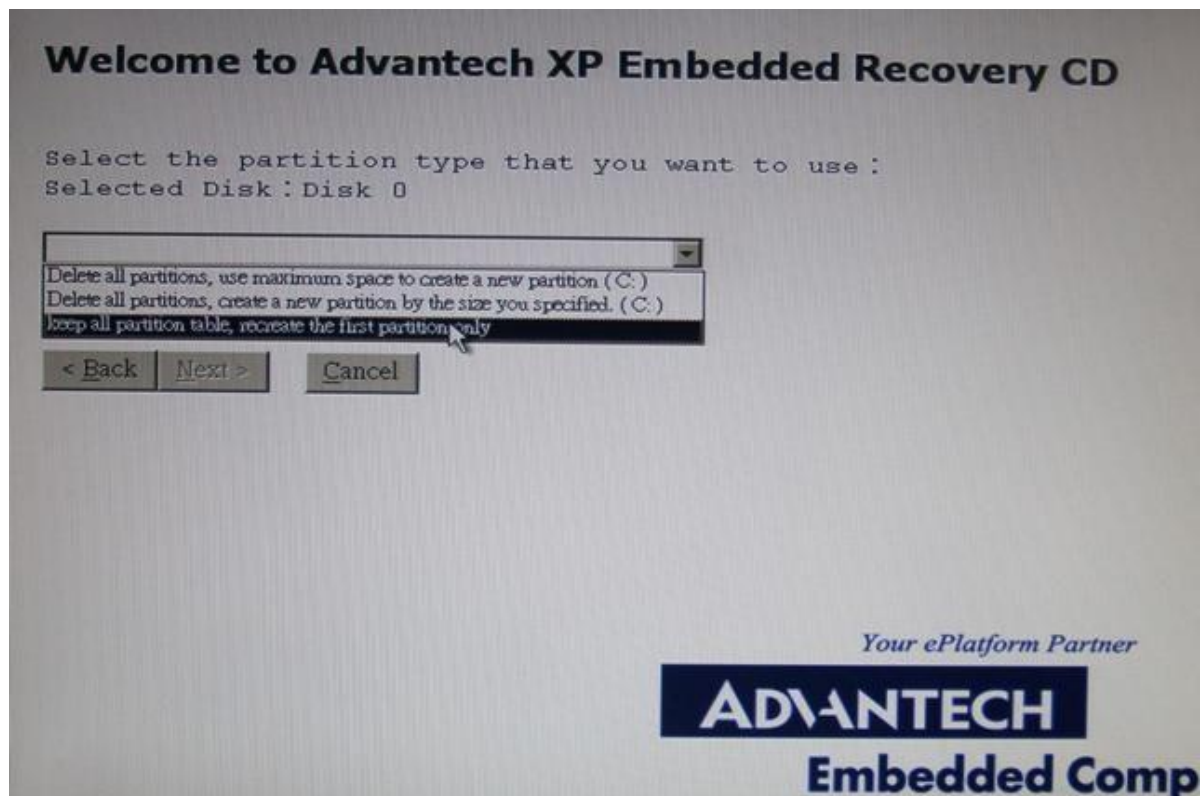




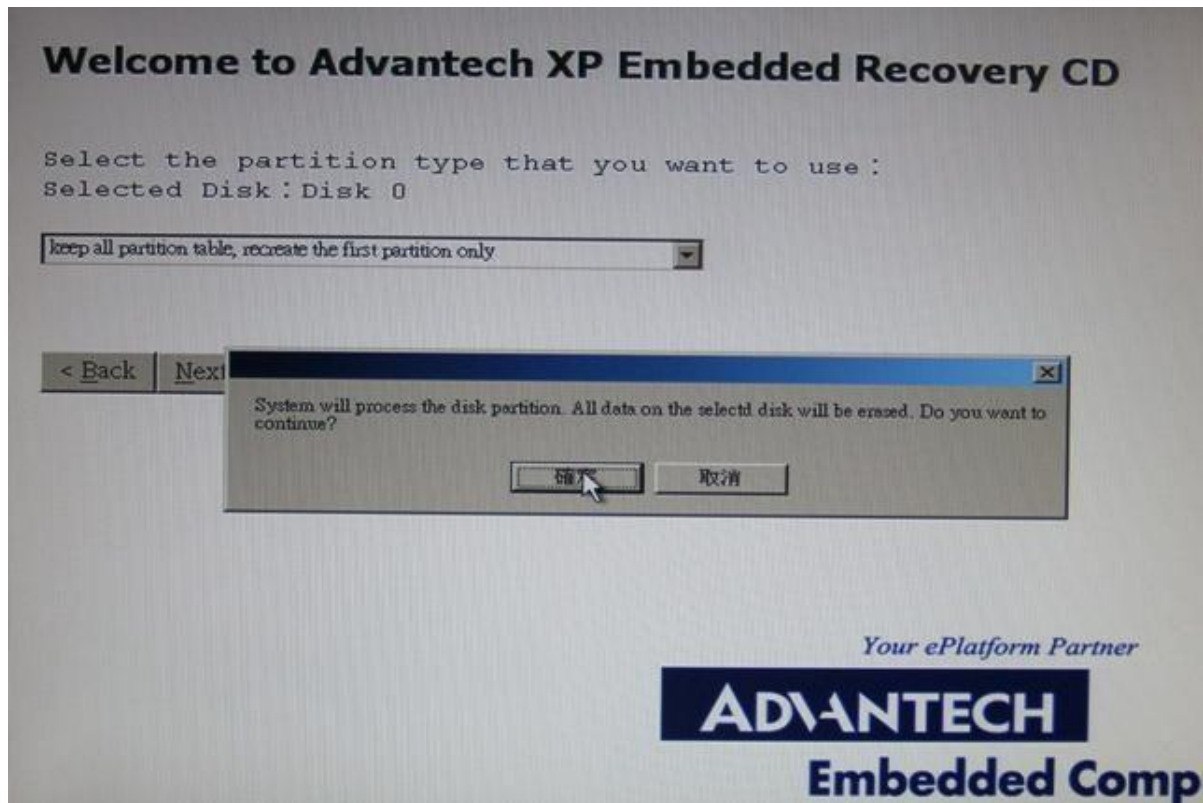
5) Disc State: Choose HardDisk 75G OB, and “next”



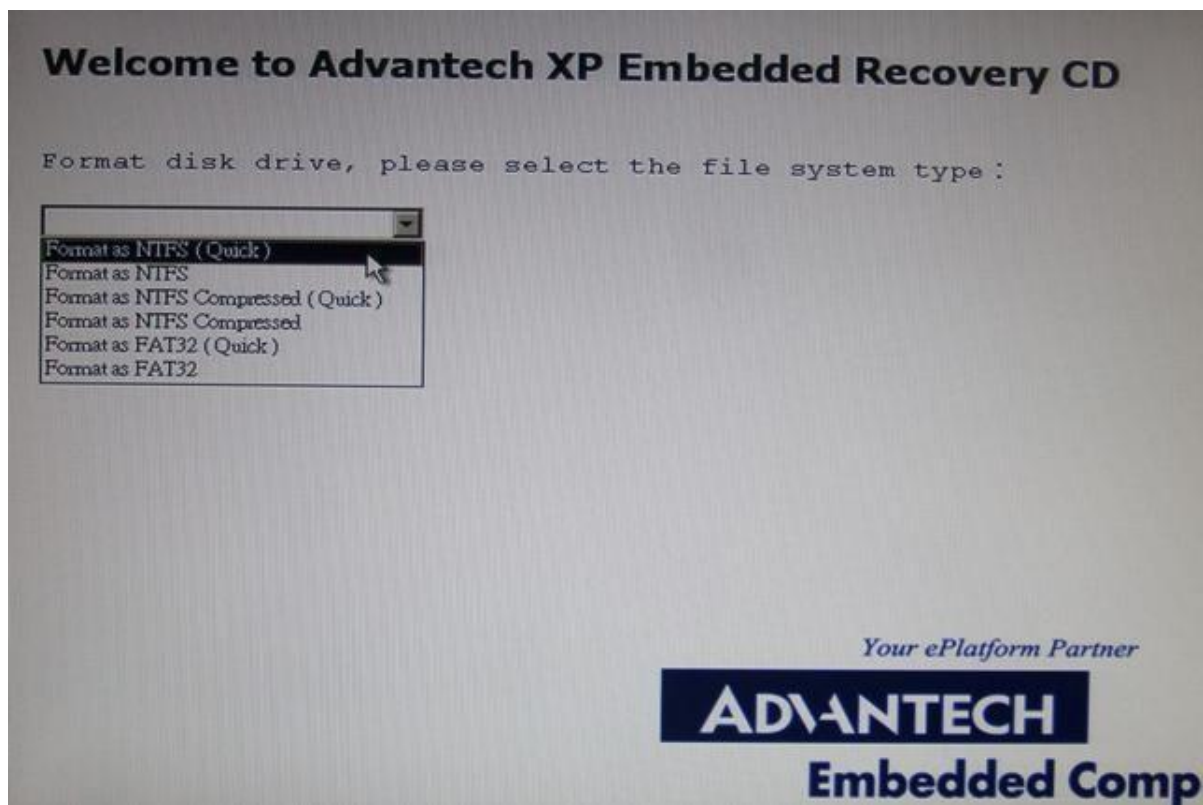
6) Select Disk: choose “Keep all partition table, recreate the first partition only”



7) Click “yes” to continue

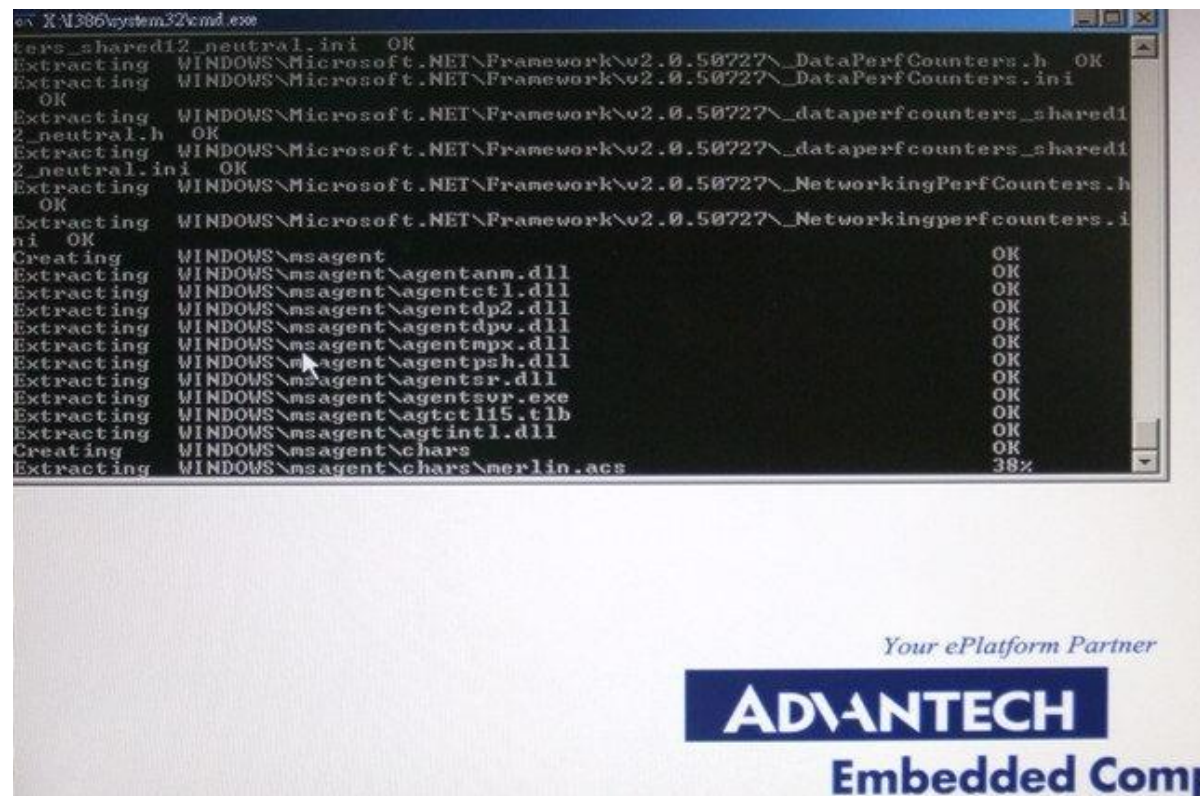


8) Format Disk Drive: choose “Format as NTFS (quick)”

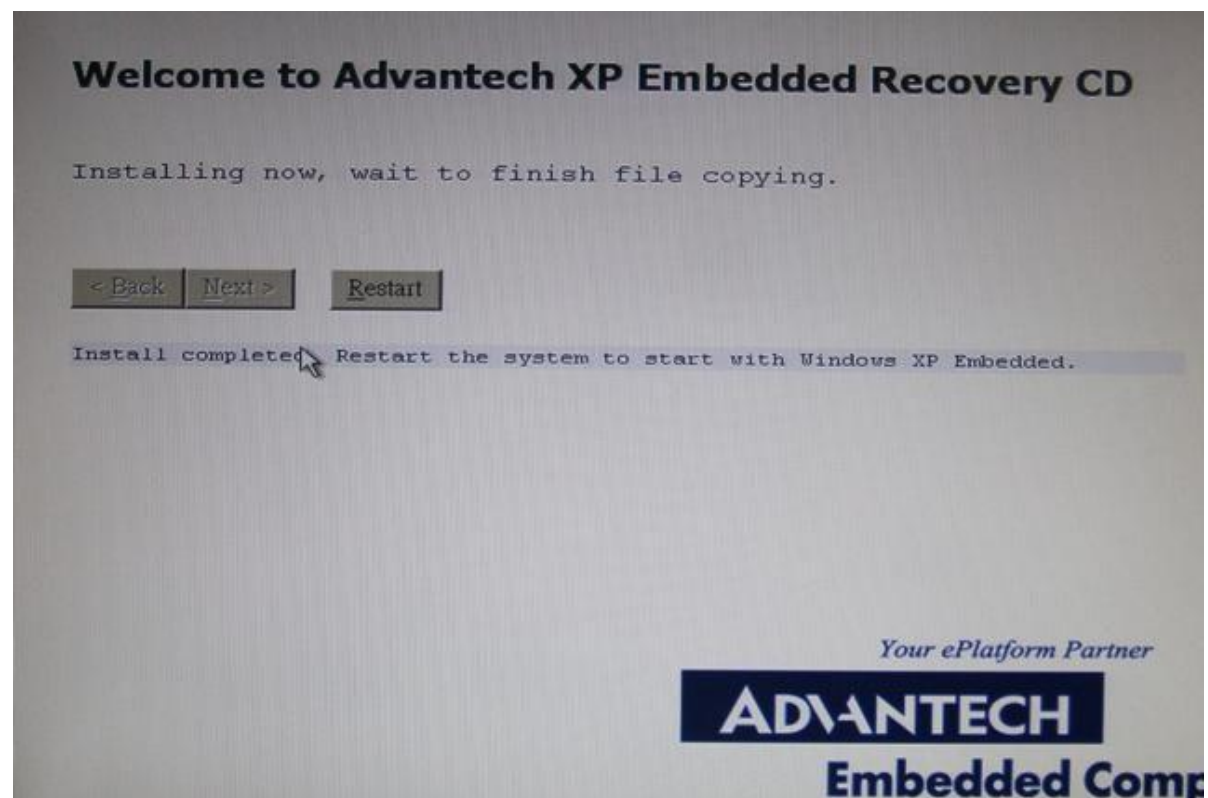




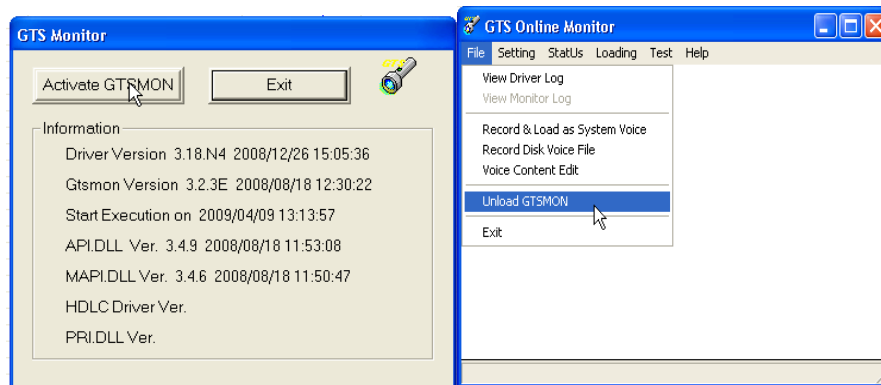
9) Wait for about 10 minutes to run the system



10) When download is complete, click "Restart" for continuing.

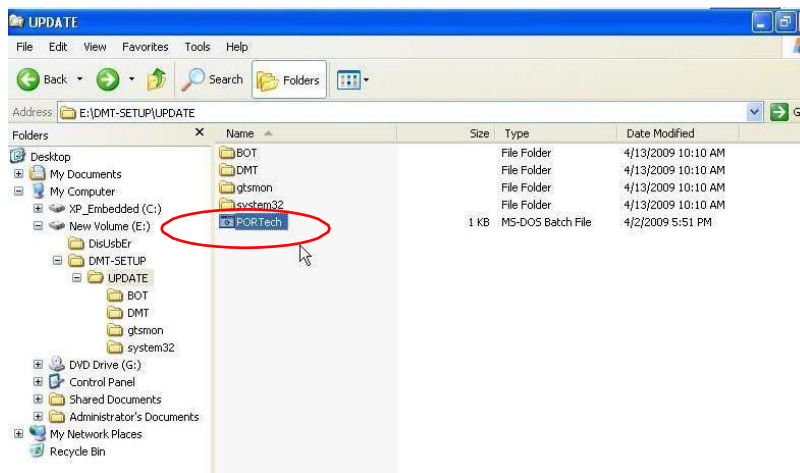


11) Upload: After the recovery is done, you need to upload both DMT exe. and GTS MON



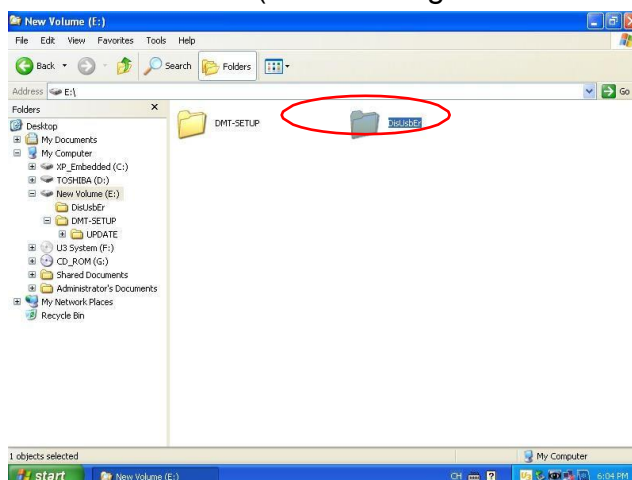
12) DMT-setup

- ◆ E:\DMT-SETUP\UPDATE
- ◆ Run PORTech

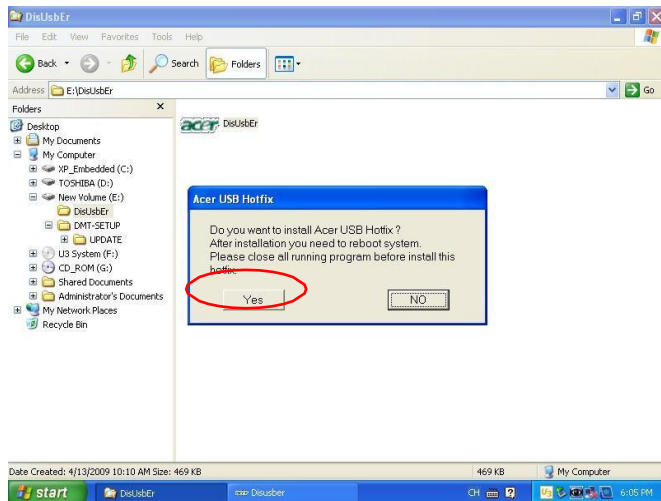


13) DisUSBer

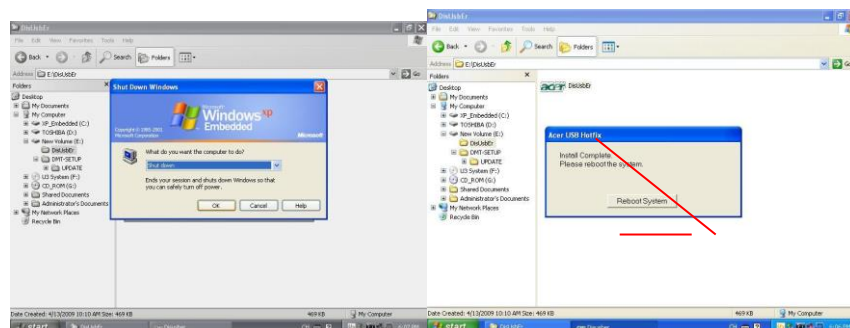
- ◆ E:\DisUSBer (Fix USB bug for 6008 motherboard)



- ◆ Run DisUSBer, and click "yes"



◆ Go to “Shut down” instead of “Reboot System”



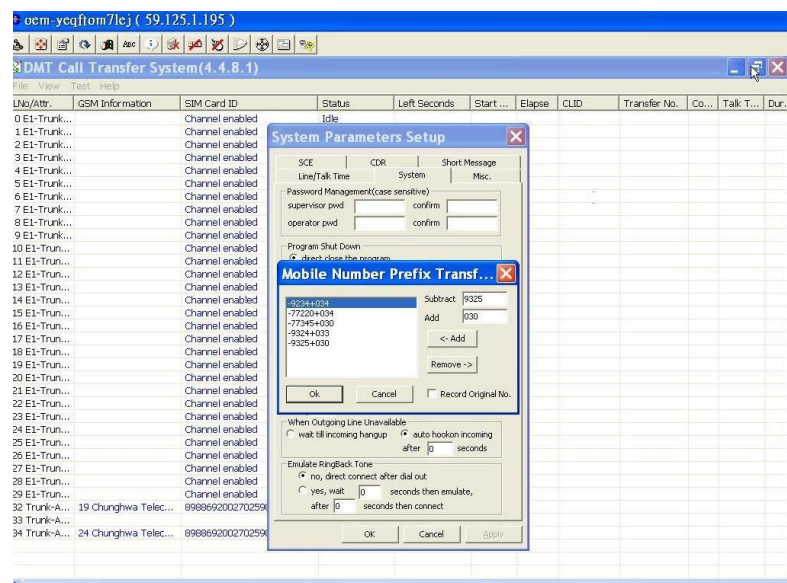
13) Turn on the DMT-V and take out the Disc

14) All done

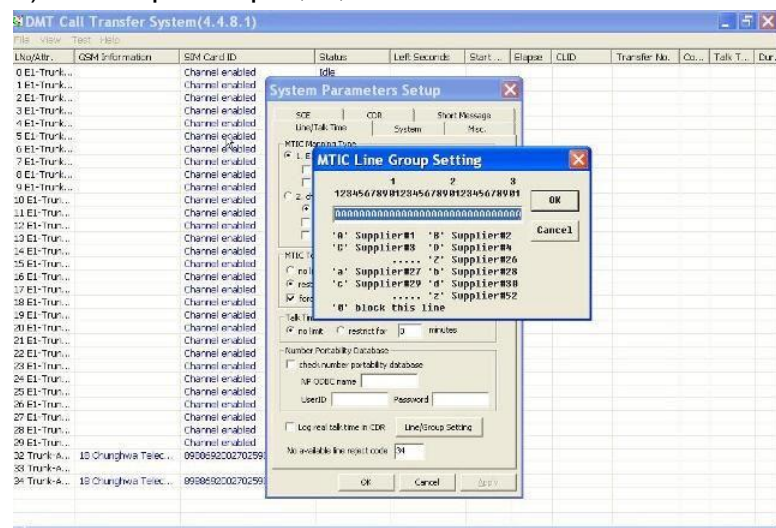
Q3: How to setup Prefix number:

A3: E.g. To setup 2 sets of area code and 3 sets of groups, please see the steps as follows:

1) Transform Area Code



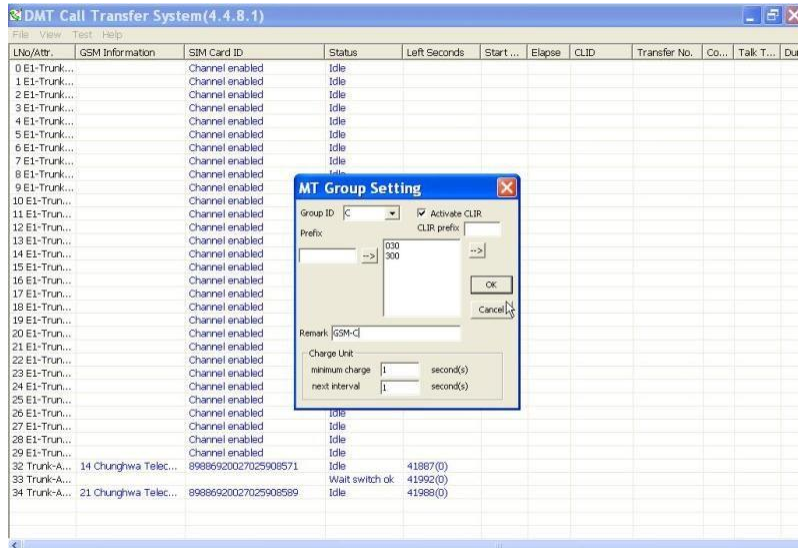
## 2) To setup Group A, B, C



## 3) To setup area code of Group A

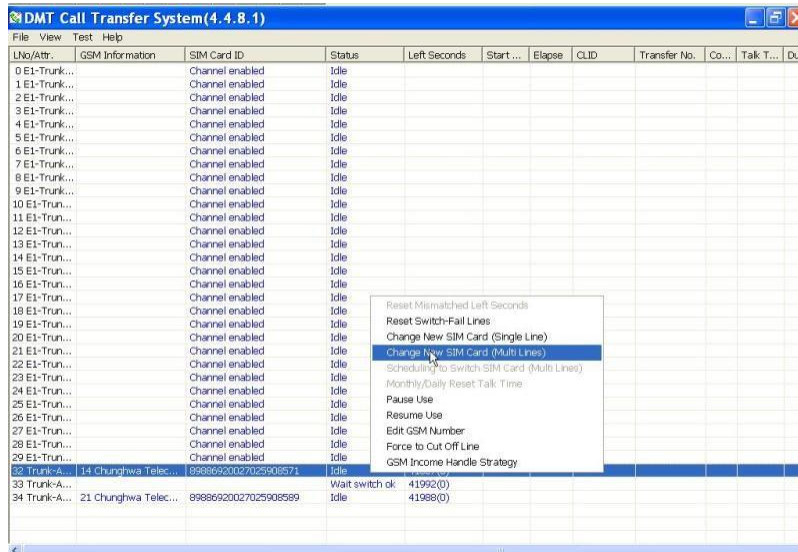






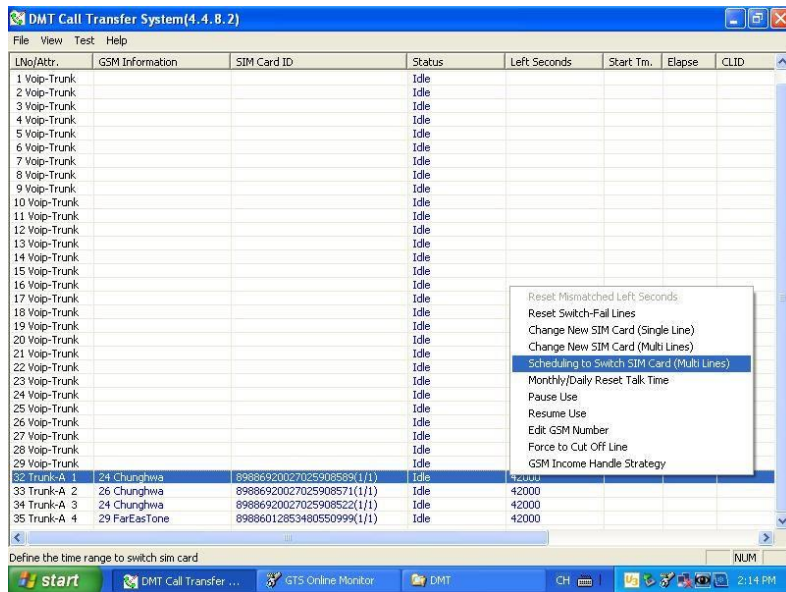
Q4: How to change SIM Card?

A4: Please click the right button on the mouse, and choose “change New SIM Card (Multi Lines)”.

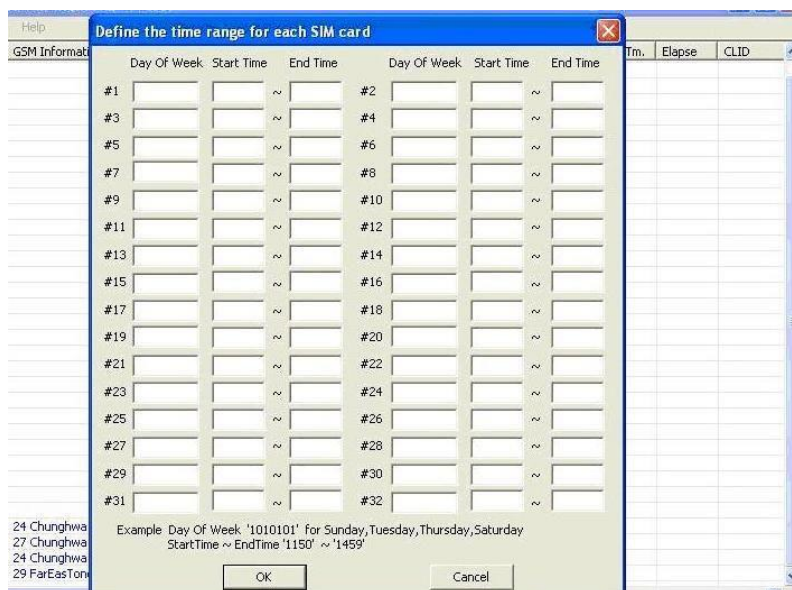


Note: If you use SCBOX or SCE900, you can schedule SIM Card’s working days and times as follows:

1) Scheduling to Switch SIM Card (Multi Lines)



## 2) Define the time range for each SIM Card



Q5: Why can't make the call?

A5: When you setup #31# or \*31# as private call, please check with your operator to see if it's available or not.

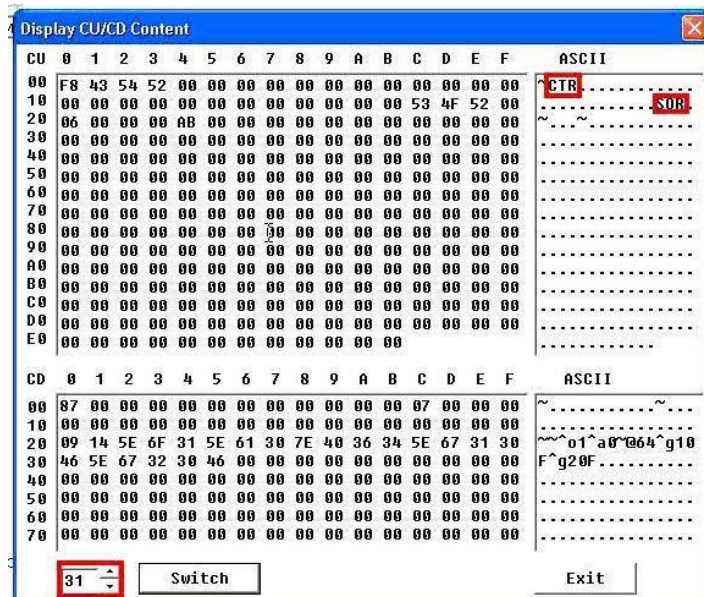
Q6: How to check up system status?

A6: It can divided into two parts: CONTROL; MTIC

1) CONTROL

31(Control-PLCC-VOIP)-status

63(Control)-status



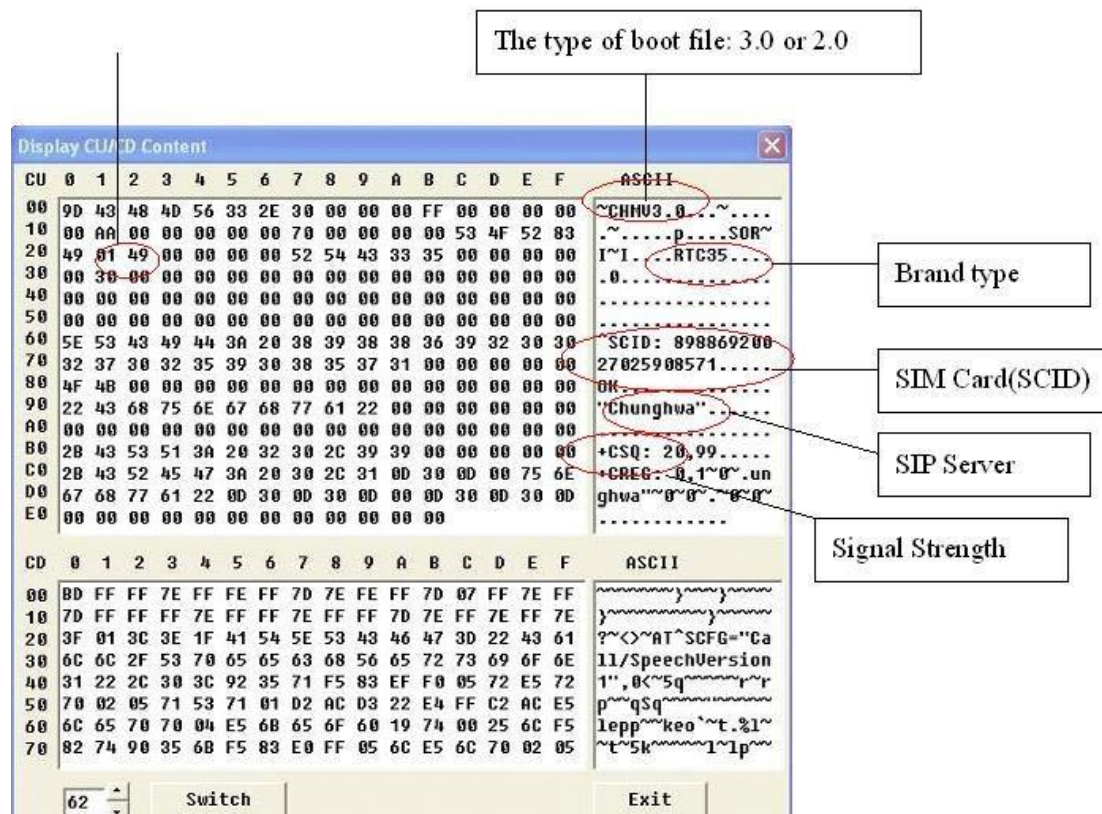
NOTE: If CTR doesn't show up in the monitor like above diagram, it means the control card or GTS card is broken or damaged.

## b) MTIC

1)32-62(MTIC)-32~62

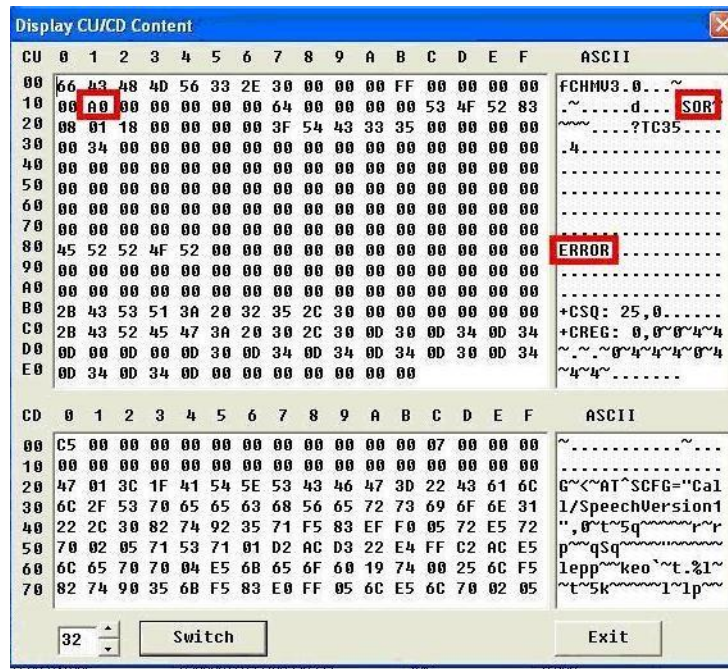
NOTE:

AA" shows normal status; if not AA, it means something wrong with the setup

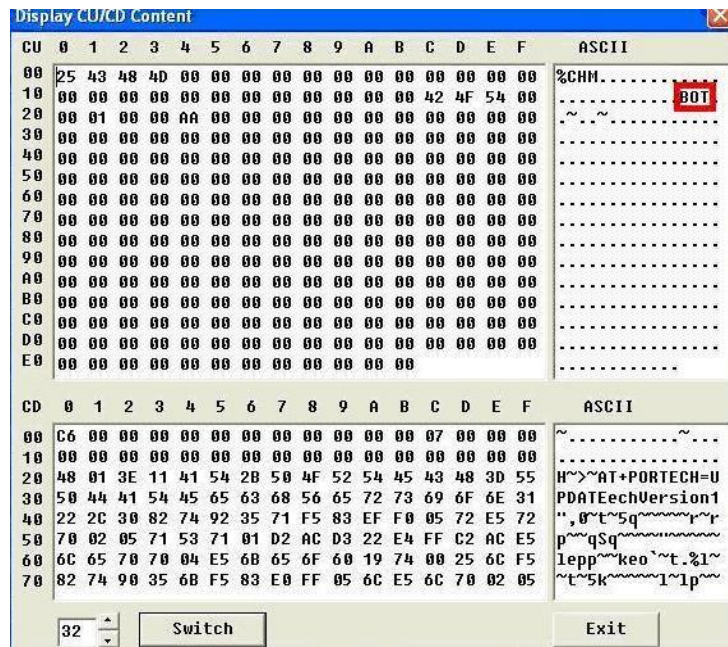




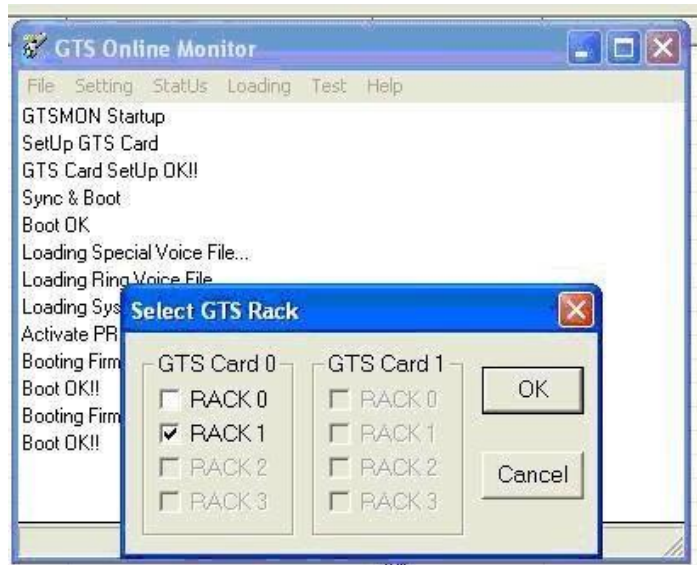
2) If your status shows “ERROR” as follows diagram, it means SIM Card is not functional. Please check if SIM Card has contact fault or not.



3) If your status shows “BOT” as follows diagram, it means the hardware is broken. Please try to reboot DMT.



NOTE: Choose only RACK 1 for priority.



Q8: Why E1 can't start up?

A8: When status shows "PRI not ready", please double check these 3 ways as follows.

Line/Attr.	GSM Information	SIM Card ID	Status	Left Seconds	Start Tm.	Elapse	CLID
0 E1-Trunk 1		Channel enabled	PRI not ready				
1 E1-Trunk 2		Channel enabled	PRI not ready				
2 E1-Trunk 3		Channel enabled	PRI not ready				
3 E1-Trunk 4		Channel enabled	PRI not ready				
4 E1-Trunk 5		Channel enabled	PRI not ready				
5 E1-Trunk 6		Channel enabled	PRI not ready				
6 E1-Trunk 7		Channel enabled	PRI not ready				
7 E1-Trunk 8		Channel enabled	PRI not ready				
8 E1-Trunk 9		Channel enabled	PRI not ready				
9 E1-Trunk 10		Channel enabled	PRI not ready				
10 E1-Trunk 11		Channel enabled	PRI not ready				
11 E1-Trunk 12		Channel enabled	PRI not ready				
12 E1-Trunk 13		Channel enabled	PRI not ready				
13 E1-Trunk 14		Channel enabled	PRI not ready				
14 E1-Trunk 15		Channel enabled	PRI not ready				
15 E1-Trunk 16		Channel enabled	PRI not ready				
16 E1-Trunk 17		Channel enabled	PRI not ready				
17 E1-Trunk 18		Channel enabled	PRI not ready				
18 E1-Trunk 19		Channel enabled	PRI not ready				
19 E1-Trunk 20		Channel enabled	PRI not ready				
20 E1-Trunk 21		Channel enabled	PRI not ready				
21 E1-Trunk 22		Channel enabled	PRI not ready				
22 E1-Trunk 23		Channel enabled	PRI not ready				
23 E1-Trunk 24		Channel enabled	PRI not ready				
24 E1-Trunk 25		Channel enabled	PRI not ready				
25 E1-Trunk 26		Channel enabled	PRI not ready				
26 E1-Trunk 27		Channel enabled	PRI not ready				
27 E1-Trunk 28		Channel enabled	PRI not ready				
28 E1-Trunk 29		Channel enabled	PRI not ready				
29 E1-Trunk 30		Channel enabled	PRI not ready				
31 Trunk-A 1 h	22 Chunghwa	8988620027025908514	Idle	42000			
32 Trunk-A 2 h			Wait switch ok	42000			
33 Trunk-A 3 h							

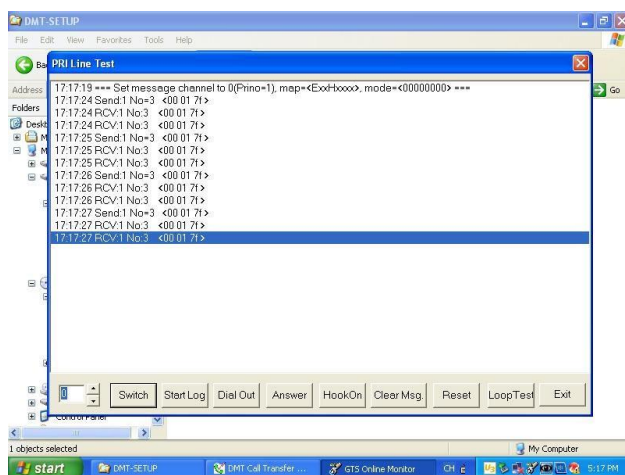
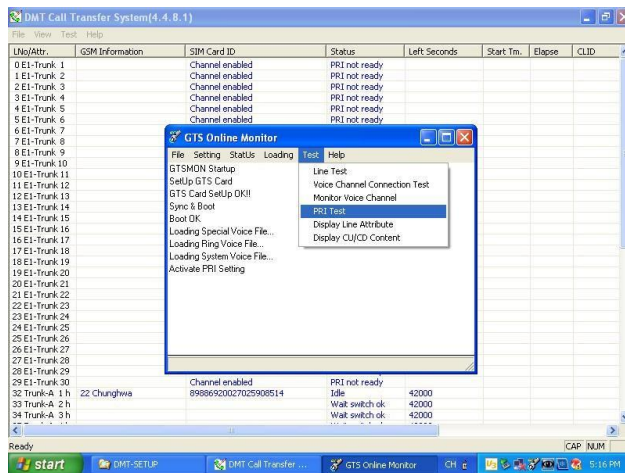
#### NOTE:

If the condition of DMT is the same as below description, the hardware is functional working.

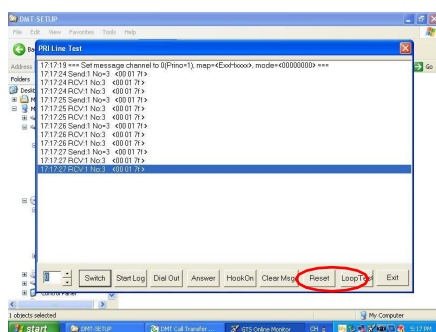
If not, it means that hardware had problem.

1. When you install Loop, it will show 3 Bytes send for 1 time and received for 2 times as follows

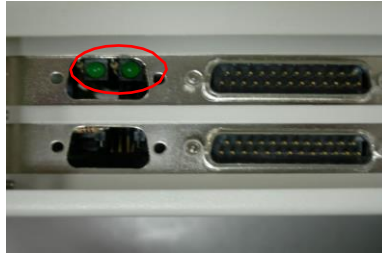




2. When you press “Reset” (left diagram), the light signal SIO RXD on IMS Card (right diagram) will keep blinking.



3. Please check the light on HDLC card (left diagram), the left light will be light on and the right light will be blinking (right diagram).



Note:

If not working, please check the Bus part like follows diagram. It may be connecting fault.

