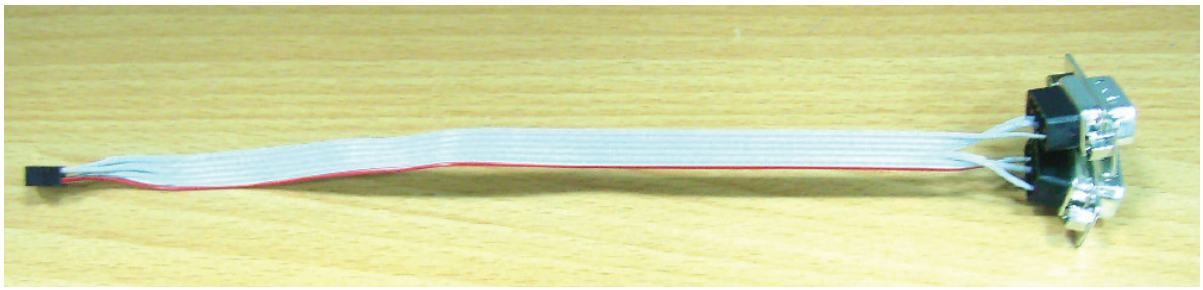
Application Note

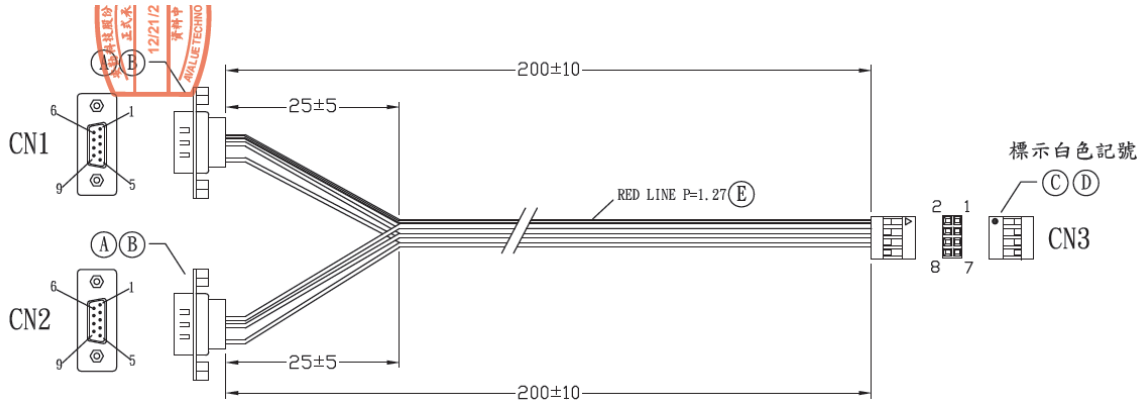
Subject : RSC-W910 MAC address programming Guide	
FAQ Document No: S12004	**Date: 2012/05/10**
Model Name. RSC-W910	**Rev. A1**
Category: ☐General ☐H/W ■S/W ☐Others,	
Purpose : **Programming MAC address with WinCE Boot loader Boot menu.**	

Pre-configuration for RSC-W910:

A. Required cables:

1.E1706122000R





CN1		CN3		CN2		CN3	
RED	2	1	RED	GRY	2	2	GRY
GRY	3	3	GRY	GRY	3	4	GRY
GRY	5	5	GRY	GRY	5	6	GRY

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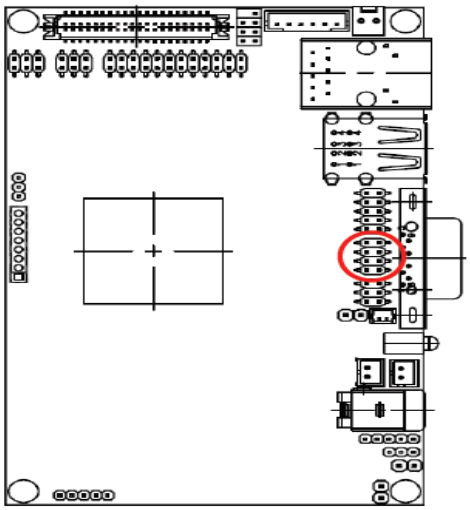
2.DB9 null Modem cable(RS-232 cross over Cable)

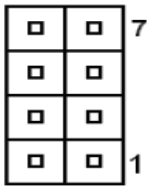
B. Another PC host with Windows XP + hyper terminal Program.

Procedures:

1. **Connect E1706122000R to RSC-W910, find the JCOM2 and cable's CN3 for debug port.**

2.3.11 Serial Port 2 connector (JCOM2)





Signal	PIN	PIN	Signal
485DA-	8	7	485DA+
GND	6	5	GND
TxD2	4	3	TxD0
RxD2	2	1	RxD0

NOTE:

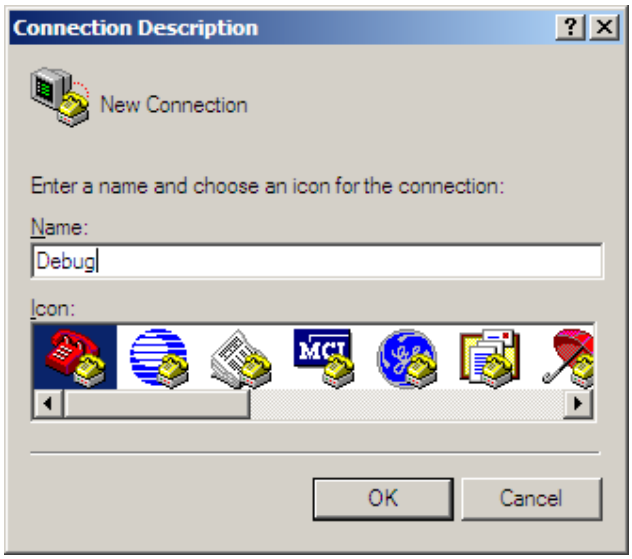
Pin1 & pin3 (RxD0/TxD0) are debug pins, you can get debug message by cross over cable.

Pin2 & pin4 (RxD2/TxD2) are RS-232 signals.

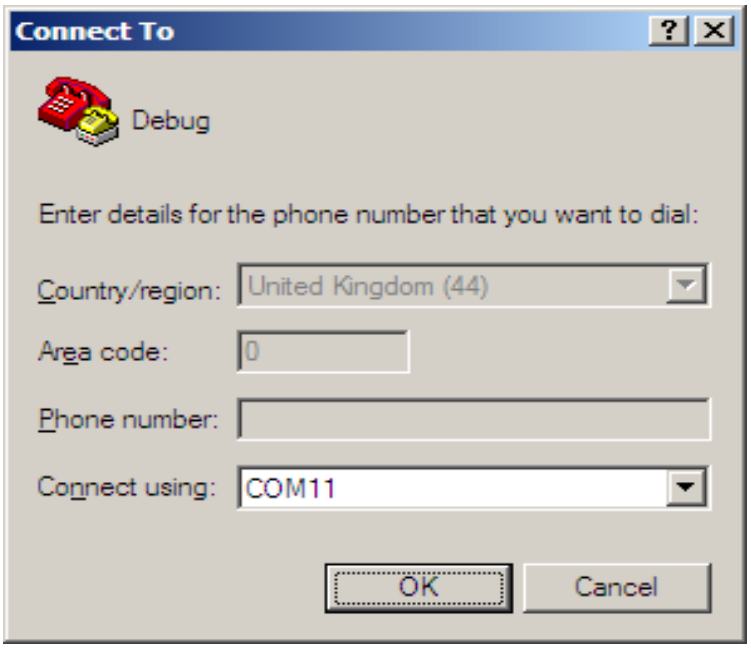
Pin7 & pin8 (485DA+/485DA-) are RS-485 signals.

2. **Make DB9 cross over cable connection for RSC-W910 E1706122000R CN1 and WinXP PC host.**
3. **Launch WinXP Hyper terminal program.**

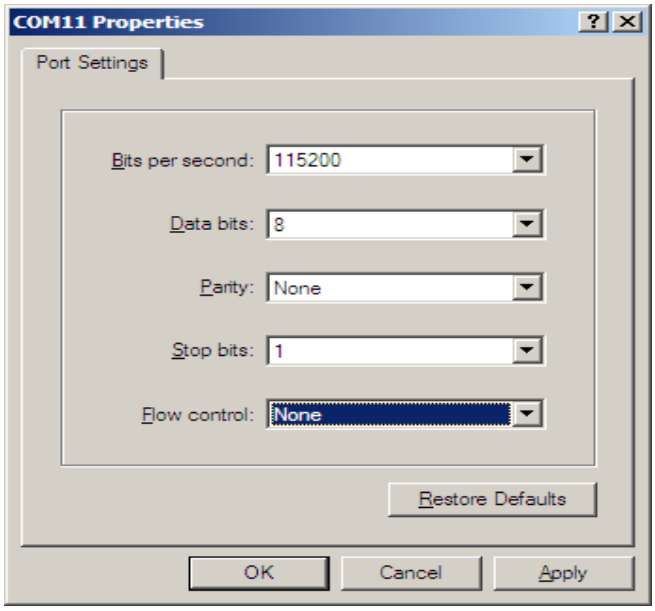
4. **Make a new connection name “Debug”.**



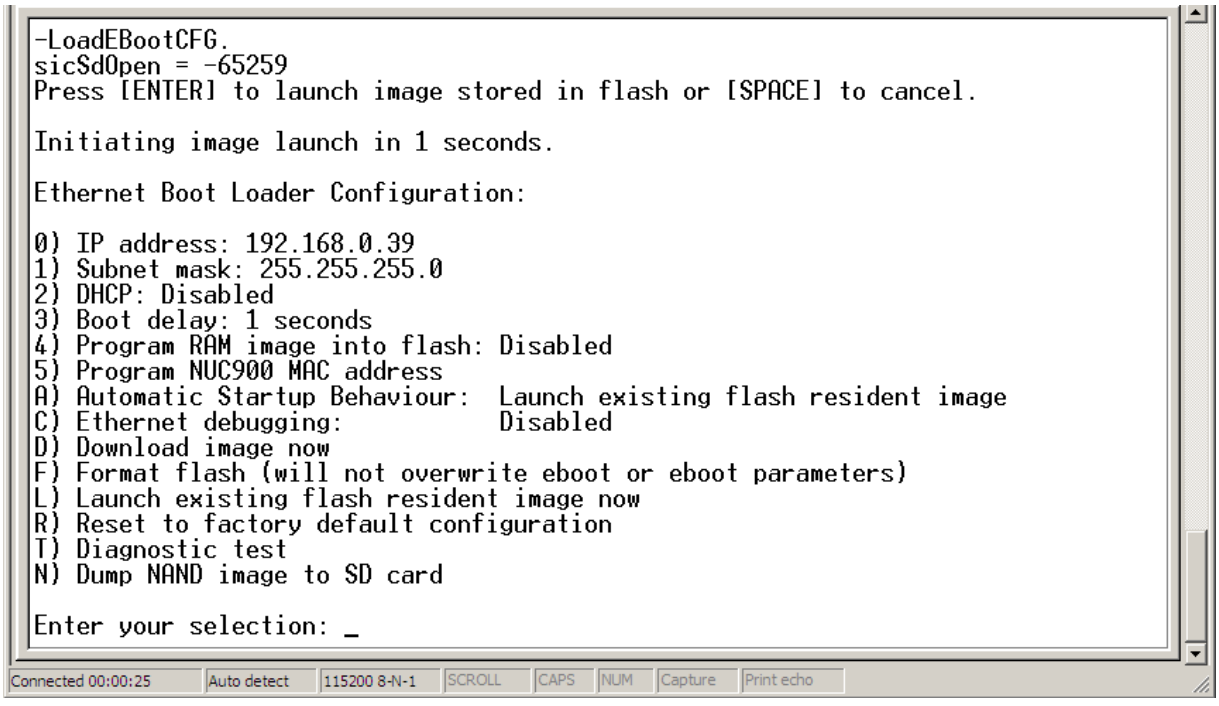
5. **Configure the connection port of your WinXP PC COM port where the Cross over cable connected. For example :“COM11”**



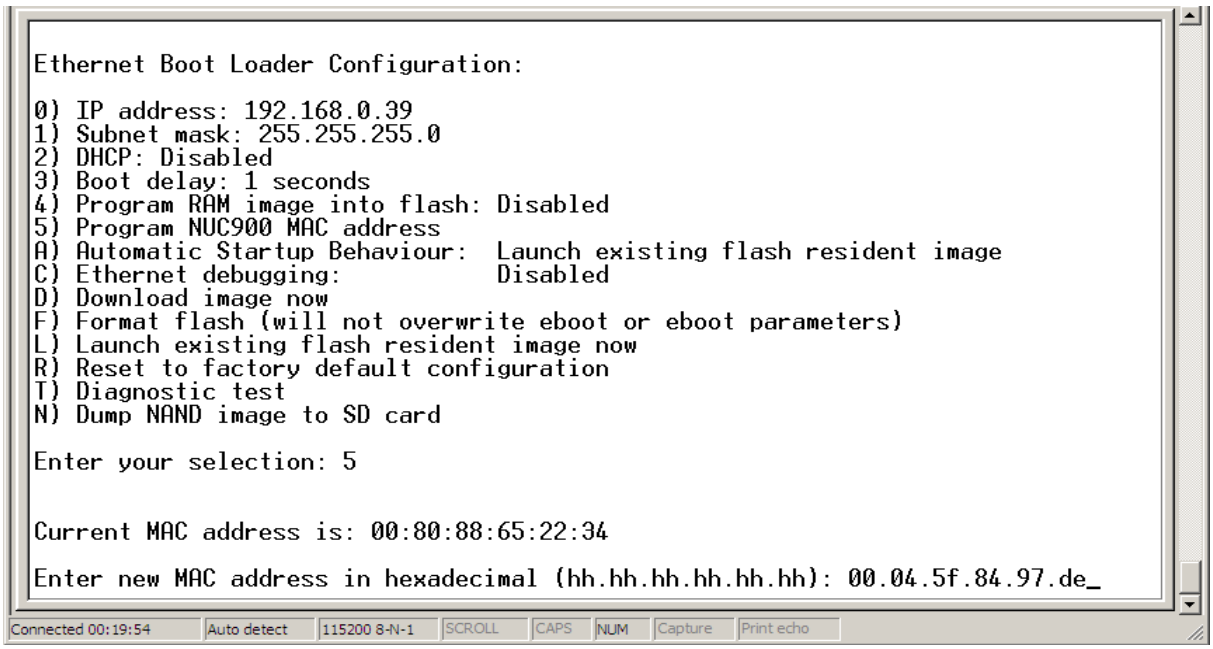
6. Set BaudRate Bit Per second as “115200” and Flow control as “None” and click OK.



7. Boot RSC-W910, while the boot moment and debug Screen is displayed, please keep pressing “space bar” *very quickly* for enter Boot loader Menu. If you missed the timing for cancel launch Image, you won’t see the menu as below. Please reboot RSC-W910 again until you got menu shows just like below.

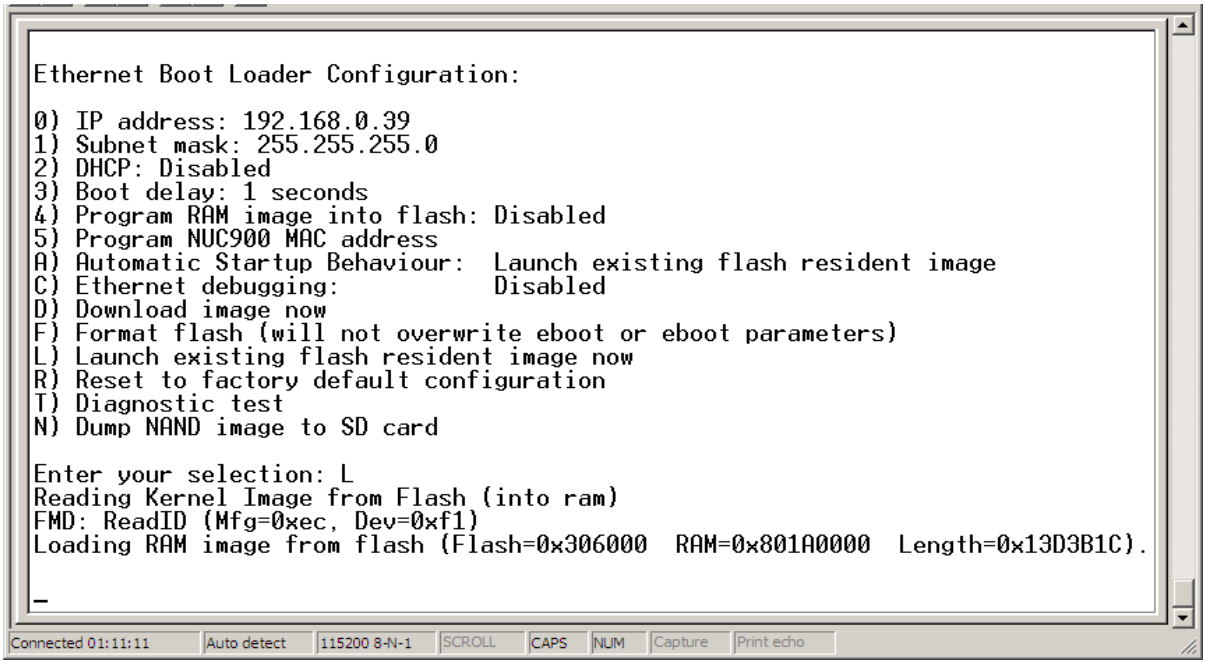


8. Enter “5” key for input new MAC address and Program NUC900 MAC address.

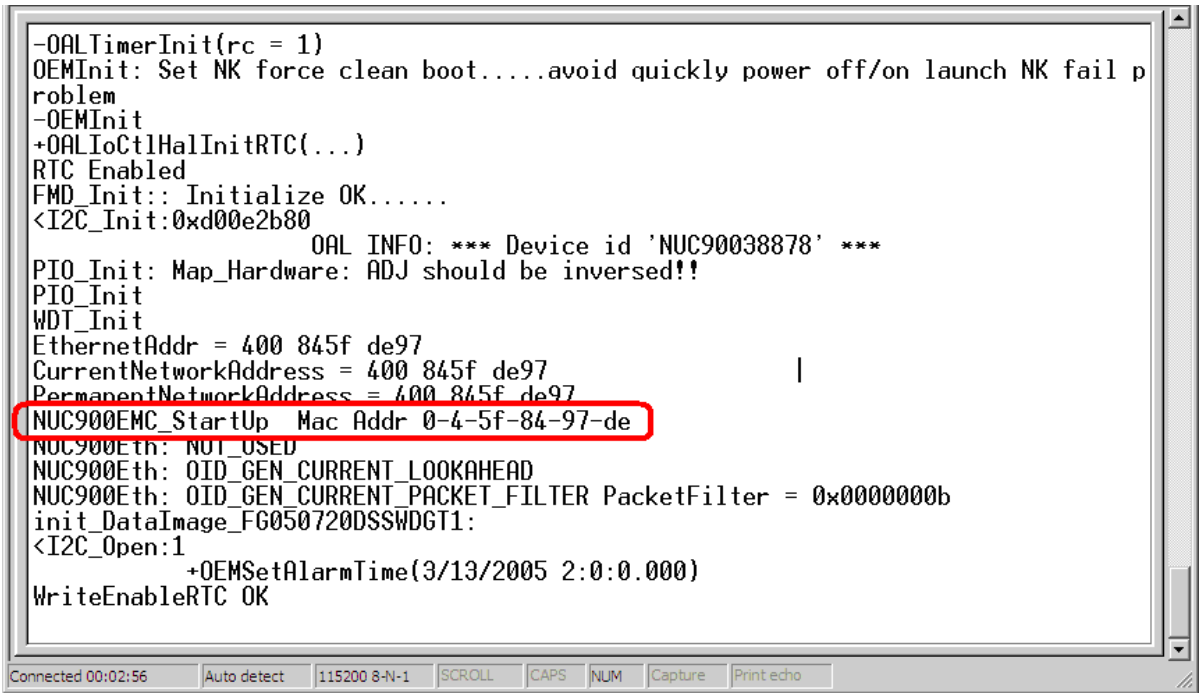


Please key-in correct MAC address by format XX.XX.XX.XX.XX.XX and Press Enter.

9. Please type “L” for Launch Image and Programming MAC address.



Thus, you could see the next screen show the NUC900 starting with correct MAC address.


-OALTimerInit(rc = 1)
OEMInit: Set NK force clean boot.....avoid quickly power off/on launch NK fail p
roblem
-OEMInit
+OALIoCtlHalInitRTC(...)
RTC Enabled
FMD_Init:: Initialize OK......
<I2C_Init:0xd00e2b80
OAL INFO: *** Device id 'NUC90038878' ***
PIO_Init: Map_Hardware: ADJ should be inversed!!
PIO_Init
WDT_Init
EthernetAddr = 400 845f de97
CurrentNetworkAddress = 400 845f de97
PermanentNetworkAddress = 400 845f de97
NUC900EMC_StartUp Mac Addr 0-4-5f-84-97-de
NUC900Eth: NOT_USED
NUC900Eth: OID_GEN_CURRENT_LOOKAHEAD
NUC900Eth: OID_GEN_CURRENT_PACKET_FILTER PacketFilter = 0x0000000b
init_DataImage_FG050720DSSWDGT1:
<I2C_Open:1
+OEMSetAlarmTime(3/13/2005 2:0:0.000)
WriteEnableRTC OK
Connected 00:02:56
Auto detect
115200 8-N-1
SCROLL
CAPS
NUM
Capture
Print echo

10. Done.