

# Lab Exercises

## Command Mode

### A. Change setting, view current settings in RAM

1. Using terminal emulator program set up connection using  
Port Number = Com1  
Baud rate = 9600  
Parity = None  
Stop Bits = 1  
Flow Control = None
2. Type **AT** <Enter> to verify communications
3. Type **ATI4** <Enter> to view current modem settings (notice **&K** setting)
4. Type **AT&K0** <Enter> - disables data compression
5. Type **ATI4** <Enter> to view current modem settings (notice **&K** setting)

### B. Change setting, save to NVRAM, view NVRAM settings

1. Type **AT&K2&W** <Enter> - enables data compression and saves to NVRAM
2. Type **ATI5** <Enter> to view NVRAM settings (notice **&K** setting)
3. Type **ATI4** <Enter> to view current modem settings (notice **&K** setting)

### C. Load Flow Control template, view settings

1. Type **AT&F0** <Enter> - loads No Flow Control template
2. Type **AT&W** <Enter> - saves to NVRAM
3. Type **ATI5** <Enter> to view NVRAM settings
4. Compare settings shown in terminal emulator to settings shown in Flow Control template handout

## Data Mode – Designate Caller and Receiver

### D. Communicate with neighbor at 9600 with No Flow Control

1. Receiver - Using terminal emulator program set up connection using  
Port Number = Com1  
Baud rate = 9600  
Parity = None  
Stop Bits = 1  
Flow Control = None
2. Receiver – Type **AT&F0** <Enter> to load No Flow Control template
4. Receiver – Type **ATS0=1** <Enter> to enable auto answer
5. Caller - Using terminal emulator program set up connection using  
Port Number = Com1  
Baud rate = 9600  
Parity = None  
Stop Bits = 1

Flow Control = None

6. Caller – Type **AT&F0** <Enter> to load No Flow Control template
7. Caller – Type **ATDT \_ \_ \_** <Enter> to dial receiver

#### E. Communicate with neighbor at differing baud rates with Flow Control enabled

1. Receiver - Using terminal emulator program set up connection using  
Port Number = Com1  
Baud rate = 9600  
Parity = None  
Stop Bits = 1  
Flow Control = None
2. Receiver – Type **AT&F1** <Enter> to load Hardware Flow Control template
4. Receiver – Type **ATS0=1** <Enter> to enable auto answer
5. Caller - Using terminal emulator program set up connection using  
Port Number = Com1  
Baud rate = 115200  
Parity = None  
Stop Bits = 1  
Flow Control = None
6. Caller – Type **AT&F1** <Enter> to load Hardware Flow Control template
7. Caller – Type **ATDT \_ \_ \_** <Enter> to dial receiver

#### F. Communicate with neighbor with differing baud rates and No Flow Control enabled

1. Receiver - Using terminal emulator program set up connection using  
Port Number = Com1  
Baud rate = 9600  
Parity = None  
Stop Bits = 1  
Flow Control = None
2. Receiver – Type **AT&F0** <Enter> to load No Flow Control template
4. Receiver – Type **ATS0=1** <Enter> to enable auto answer
5. Caller - Using terminal emulator program set up connection using  
Port Number = Com1  
Baud rate = 115200  
Parity = None  
Stop Bits = 1  
Flow Control = None
6. Caller – Type **AT&F0** <Enter> to load No Flow Control template
7. Caller – Type **ATDT \_ \_ \_** <Enter> to dial receiver