Simple ASCII Protocol Board LAN / Serial

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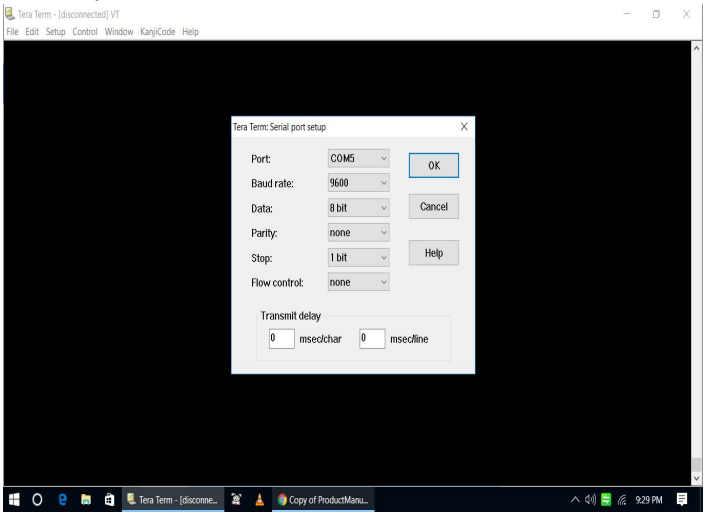
ASCII Configuration Protocol.

Use the terminal programs like Hyperterminal,TeraTerm,RealTerm or Putty software to send the ASCII protocol setting to the board via RS232/RS485/LAN/WiFi communication.

In the terminal program set 9600,8,n,1 setting for RS232/RS485

Set your communication port no
Set Baud rate as 9600 Baud
Set Data as 8 Bit
Set Parity as none
Set Stop bit as 1 Bit



In the terminal program set IP address,TCP port,service,protocol for LAN/WiFi

Set your Host IP address
Set TCP port as 8080
Set Service as Telnet
Set Protocol as unspec

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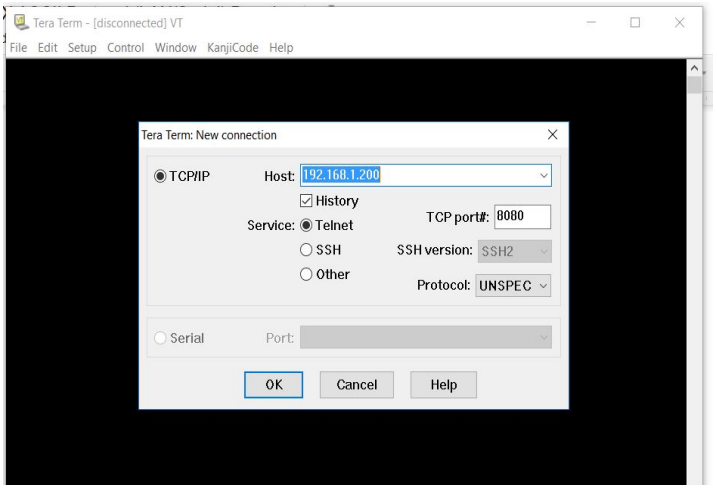

The RS232 / RS485/LAN should be connected to the board and a terminal program like Hyperterminal,TeraTerm ,putty or RealTerm should be used.The Board uses 9600 8,n,1 Setting.

Packet Format

Start of Packet SOP => [
End Of Packet EOP =>]

[ID Command Data CRC]

ID (2 chars) is the ID of the board default is 01
Command (1 char) is the command character which defines the function.
Data (n chars) is the data associated with the command.
CRC (2 chars) is the CRC for the data packet. To ignore CRC provide XX.

Command	Description	Example
Set Device ID	This command sets the device ID when multiple devices are connected. Default device will be 01.	**[IDZDDDCRC]** DD-01234567890123456789 Ex: **[01ZD02XX]** **[01ZD10XX]**
Set Brightness	This command is used to set the brightness of the led display.Where Brightness can be from	**[IDZHNCRC]** N- 0-9 Ex:

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	0-9.	To set minimum brightness **[01ZH1XX]**
Set Digits or TEXT	This command send Digits or simple text to led display.	**[IDTttttttttttttCRC]** Ex: **[IDTttttttttttttCRC]** 01234567890123456789 **[01T12:34XX]** **[01T12:3445:67XX]** **[01Tabcdefghij XX]**
Set Digits or TEXT and save.	This command send Digits or simple text to led display and it will be saved in the memory	**[IDUttttttttttttCRC]** Ex: **[IDUttttttttttttCRC]** 01234567890123456789 **[01U12:34XX]** **[01U12:3445:67XX]** **[01Uabcdefghij XX]**
Set IDLE interval.	This command sets Default Message Interval If No message comes for this many seconds it defaults to saved message	**[IDZIidealintervalCRC]** Ex: **[IDZIidealintervalCRC]** 01234567890123456789 To set ideal interval for 5 sec **[01ZI05XX]**

CRC Calculation

The CRC is the ASCII Encoded HEX

Ex:

CRC is calculated by XORing all the characters from ID to end of data. STX character [is not included in the CRC.

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[01E2000.0169]

```
byte i, CalcCRC=0;
for(i=1;i<PacketLen-2;i++)
{
CalcCRC = CalcCRC ^ InputText[i];
}
```

Contact Information

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