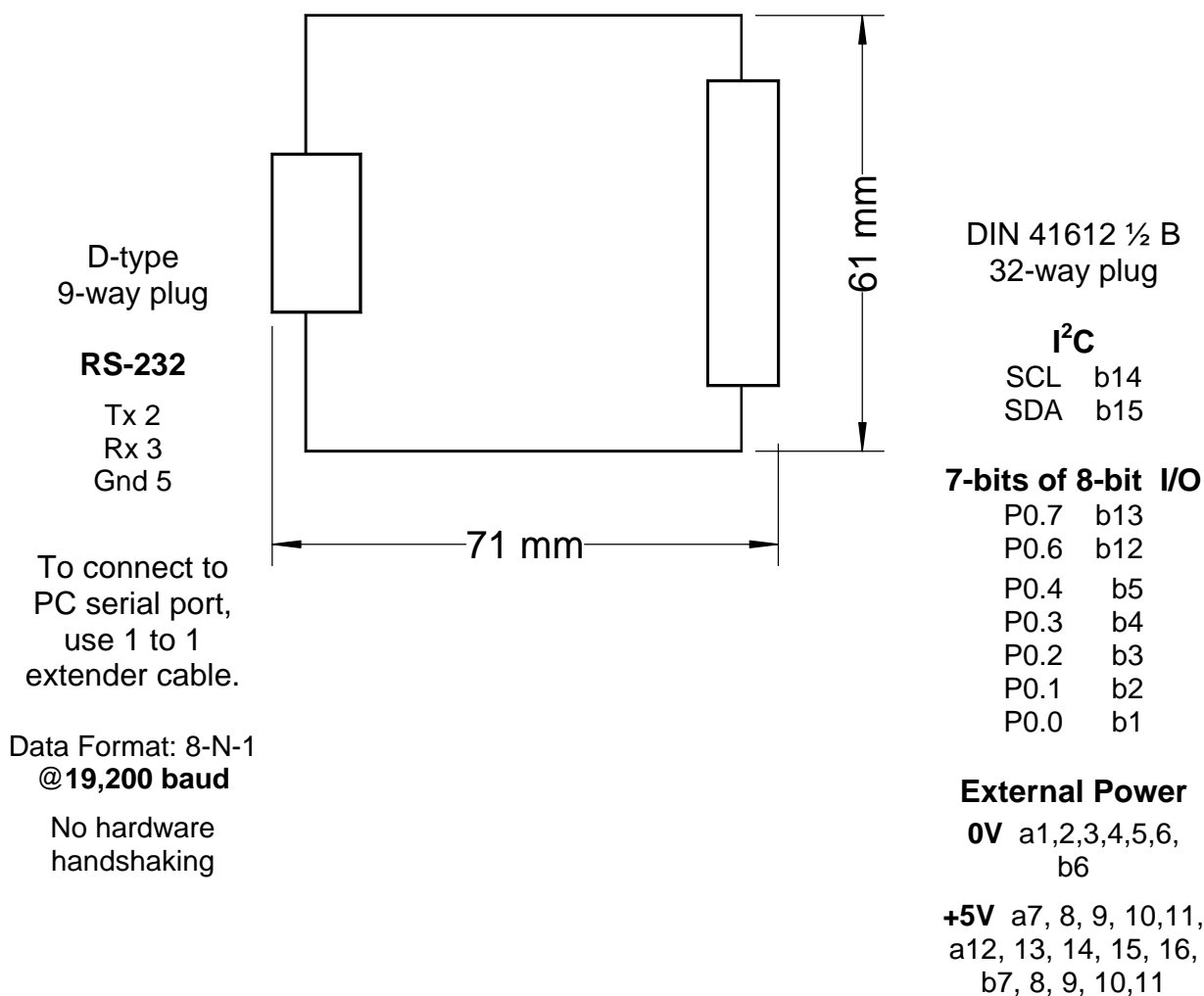


**RS-232 to I<sup>2</sup>C Converter Board** Version 3, June 2003

Part Number CT2502 Issue1



## **RS-232 to I<sup>2</sup>C Converter Board** Version 3, June 2003

### **Command Syntax**

Where:-

- xx = slave address of device (8bit)
- aa = sub address 1 (8bit)
- bb = sub address 2 (8bit)
- d0...dn = hex data byte d0,d1..dn (8bit)
- nn = number of bytes to read or write (min 1 max 16) (8bit)  
except fill where max write= hex FF
- <CR> = carriage return character

#### **(1) Test Device**

- CD** - Check the presence of a device on I<sup>2</sup>C Bus
- e.g. **CDxx<CR>**

#### **(2) Write**

- WN** - Write Message bytes -  
e.g. **WNxxd0...dn<CR>**
- WSE** - Write message preceded by 8-bit sub-address (aa).  
e.g. **WSExxaad0...dn<CR>**
- WSS** - Write message preceded by 16-bit sub-address(aabb).  
e.g. **WSSxxaabbd0...dn<CR>**
  
- WRN** - Write message bytes Repetitively - e.g. **WRNxxd0...dn<CR>**
- WRSE** - Write Repetitively message preceded by 8-bit sub-address.  
e.g. **WRSExxaad0...dn<CR>**
- WRSS** - Write Repetitively message preceded by 16-bit sub-address.  
e.g. **WRSSxxaabbd0...dn<CR>**

\* \* \* Repetitive write messages are terminated on any next command received.

## **RS-232 to I<sup>2</sup>C Converter Board** Version 3, June 2003

### **(3) Read**

- RN** - Read n bytes of data e.g. **RNxxnn<CR>**
- RSE** - Read data from 8-bit sub-address e.g. **RSExxaann<CR>**
- RSS** - Read data from 16-bit sub-address e.g. **RSSxxaabbnn<CR>**
- RRN** - Repetitive Read data e.g. **RRxxnn<CR>**
- RRE** - Repetitive Read data from 8-bit sub-address e.g. **RRExxaann<CR>**
- RRS** - Repetitive Read data from 16-bit sub-address e.g. **RRSxxaabbnn<CR>**

### **(4) Memory Device Commands**

- MFE** - Fill Memory with specified data d0 (8-bit address)  
e.g. **MFExxaad0nn<CR>** max block size 255 Bytes
- MFS** - Fill Memory with specified data d0 (16-bit address)  
e.g. **MFSxxaabb0nn<CR>** max block size 255 bytes
- RME** - Read random Memory location for device address 8 bits  
e.g. **RMExxaann<CR>**
- RMS** - Read random Memory location for device address 16 bits  
e.g. **RMSxxaabbnn<CR>**

### **(5) Other Commands**

- Escape** - Escape Character reset system
- PW** - Write to digital I/O Port (0) e.g. **PWd0<CR>** where d0= hex byte
- PR** - Read Port(0) I/O returns port value as hex data d0
- O** - Check RS232 communication
- H** - Display this Help file of commands