

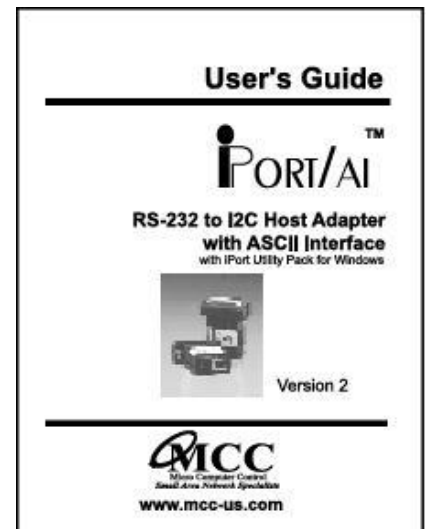


*iPort/AI*TM

iPort/AI brings I²C directly to *any* computer with an RS-232 serial port. Just plug **iPort/AI** into your computer's serial port, and you will be sending and receiving I²C messages in seconds.

PRODUCT HIGHLIGHTS

- Turn *ANY* Computer's Serial Port into an I2C Port.
- Get on the I2C Bus in Seconds.
- Supports Bus Master and Slave, Transmit and Receive, Repeated Start.
- Compatible with 3.3v to 5v I2C at up to 100Kbps.
- Simple ASCII Text Command Interface.
- Build your own custom I2C applications.
- Compatible with our LabVIEW Driver Library
- Includes our I2C Message Manager and Message Center Applications.



[Download PDF \(313KB\)](#)

I2C Bus is the Inter-Integrated Circuit serial bus developed by Philips Semiconductor for inter-IC communications. Now, this highly efficient and cost effective communications link is being adopted by leading technology companies worldwide for chip, board, and system level communications.

An I2C Bus network can support up to 127 Master or Slave devices with a 2-wire serial interface. I2C devices can be as simple as RAM, EEPROM, or I/O devices, or have the full-blown processing power of an embedded microcontroller or microprocessor.

Master, Slave, Transmit, Receive. **iPort/AI** supports I2C message modes including Multi-Master, Arbitration Detection, and messages from 1 to 32K bytes in length.

Start sending I2C messages in minutes using our Message Manager or Message Center applications included with each adapter. You can also use your computer's terminal emulation software (like Windows' Hyperterminal Program), or create your own custom I2C applications using any programming tool that can access your computer's serial port.

**iPort/AI
ASCII Text Interface Commands**

Command	Description
//[CR]	Status Display Display iPort/AI status information. Note: [CR] = Carriage Return Code or Enter Key.
/E[0 1][CR]	Echo/Prompt Control [0 = Off, 1 = On] Enable/Disable data entry echo and prompts.
/F[0 1][CR]	Flow Control [0 = XON/XOFF, 1 = RTS/CTS] Select serial communication handshaking protocol.
/C[CR]	Close I2C Connection Disconnect from the I2C Bus.
/Dxx[CR]	Set Destination I2C Slave Address Set the destination I2C Slave Address for subsequent Master Transmit or Receive operations.
/G[0 1][CR]	I2C General Call Control [0 = Disabled, 1 = Enabled] Enables/Disables iPort/AI response to I2C Bus General Call (00) messages.
/H[0 1][CR]	Hex Only Display Control [0 = Disabled, 1 = Enabled] Controls display format of received message data.
/Ixx[CR]	Set iPort/AI's Own I2C Slave Address Sets iPort/AI's own I2C Slave Address. iPort/AI will respond to I2C Bus messages sent to this address.
/M[CR]	Command Menu Display Display iPort/AI's Command Menu
/O[CR]	Open I2C Connection Activates iPort/AI as an I2C device attached to the bus.
/*Rnnnn[CR]	Master Read Message Read the specified number of data bytes from the current Destination I2C Slave device. * = No Stop for Repeated Start (requires firmware V2.00+)
/Stext[CR]	Slave Transmit Message Write the specified data bytes to a requesting I2C Master Receiver device.
/*Ttext[CR]	Master Transmit Message Master Transmit the specified data bytes to the current Destination I2C Slave device. * = No Stop for Repeated Start (requires firmware V2.00+)

TYPICAL APPLICATIONS

- **Product Development:** Software/Hardware Testing and Troubleshooting.
- **Manufacturing:** Testing and Debugging, EEPROM Programming, Quality Control.
- **Field Service:** Field diagnosis, Repair service and Verification, Product Updates.

Included Parts List:

- iPort/AI Host Adapter.(#MIIC-202)
- Power Supply (#MWT-5VAG).
- DB-9 Serial Port Adapter Cable.(#C9F25M1)
- I2C Interface Cable, 4 Ft. (iPort I²C Connector Information).(#CAB4)
- iPort I2C Utility Pack for Windows.
- User's Guide. (MIIC-202-UG.pdf)
- FREE Technical Support (via phone, fax, or email)

Optional Add-On Parts:

- I2C ESD and Over-current Protection Device. (#IPROTX)
- I2C Low Voltage Level Translator. (#IVOLT)
- I2C Interface Cables 4, 8, 16 Ft.(#CAB4, #CAB8 , or #CAB16).
- I2C Clip Lead Cable (#CABCL)
- I2C Prototyping Board (#IP-101).
- 4 Channel I2C Multiplexer Board (#IP-201).
- 7 Port I2C Distribution Board (#IP-202).
- LabVIEW Driver Library (#202-SDKW-LV)