



# ISA-to-I<sup>2</sup>C Bridge Quickstart

Thank you for purchasing an **M88** ISA-to-I<sup>2</sup>C card!  
You're a few short steps away from interfacing your IBM PC/AT or compatible with an external I<sup>2</sup>C bus.


## Initial Configuration

The ISA-to-I<sup>2</sup>C bridge card includes a DIP switch to configure the card's base I/O port address. Ports in the range 000 to 3FC can be configured. Your card has been preset to port 3A0, but you may need to adjust this for your system configuration to avoid conflicts.

Port 3A0	Switch	A9	A8	A7	A6	A5	A4	A3	A2
	State	ON	ON	ON	OFF	ON	OFF	OFF	OFF

## Connecting the Card

Insert the card to any available ISA slot on your computer's motherboard and securely fasten the card's bracket as needed for your computer case. Two options are provided for connectivity to the I<sup>2</sup>C bus: a DE-9 connector and a 4-pin "STEMMA" connector. With the computer powered off, connect your I<sup>2</sup>C devices to the appropriate connector on the card.

Signal		DE-9 pin(s)
+5VDC	1	7
GND	2	1, 2, 3, 4
SDA	3	6
SCL	4	8
NC	–	5

STEMMA pin 1 is closest to the ISA edge connector. +5VDC is sourced from the ISA bus.

## Programming the Card

Obtain supporting software from GitHub at <https://github.com/miselin/m88>, including:

- `i2c.exe`, an MS-DOS command-line utility to interact with I<sup>2</sup>C devices.
- `i2c.c`, an example C program demonstrating how to interact with the card.

The NXP PCF8584 datasheet is highly recommended reading as it offers a detailed programming guide.

## Resources

- The NXP PCF8584 datasheet for detailed technical specifications
- The **M88** website, <https://m88.computer>
- Reach out on Tindie at <https://www.tindie.com/stores/m88>
- Email me directly at [matthew@theiselins.net](mailto:matthew@theiselins.net)