Kernel driver i2c-viapro

Supported adapters:
  * VIA Technologies, Inc. VT82C596A/B
    Datasheet: Sometimes available at the VIA website

  * VIA Technologies, Inc. VT82C686A/B
    Datasheet: Sometimes available at the VIA website

  * VIA Technologies, Inc. VT8231, VT8233, VT8233A
    Datasheet: available on request from VIA

  * VIA Technologies, Inc. VT8235, VT8237R, VT8237A, VT8237S, VT8251
    Datasheet: available on request and under NDA from VIA

  * VIA Technologies, Inc. CX700
    Datasheet: available on request and under NDA from VIA

  * VIA Technologies, Inc. VX800/VX820
    Datasheet: available on http://linux.via.com.tw

  * VIA Technologies, Inc. VX855/VX875
    Datasheet: Availability unknown

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Module Parameters
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* force: int
  Forcibly enable the SMBus controller. DANGEROUS!
* force_addr: int
  Forcibly enable the SMBus at the given address. EXTREMELY DANGEROUS!

Description
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i2c-viapro is a true SMBus host driver for motherboards with one of the
supported VIA south bridges.

Your lspci -n listing must show one of these :

 device 1106:3050   (VT82C596A function 3)
 device 1106:3051   (VT82C596B function 3)
 device 1106:3057   (VT82C686 function 4)
 device 1106:3074   (VT8233)
 device 1106:3147   (VT8233A)
 device 1106:8235   (VT8231 function 4)
 device 1106:3177   (VT8235)
 device 1106:3227   (VT8237R)
 device 1106:3337   (VT8237A)
 device 1106:3372   (VT8237S)
 device 1106:3287   (VT8251)

device 1106:8324 (CX700)
device 1106:8353 (VX800/VX820)
device 1106:8409 (VX855/VX875)

If none of these show up, you should look in the BIOS for settings like enable ACPI / SMBus or even USB.

Except for the oldest chips (VT82C596A/B, VT82C686A and most probably VT8231), this driver supports I2C block transactions. Such transactions are mainly useful to read from and write to EEPROMs.

The CX700/VX800/VX820 additionally appears to support SMBus PEC, although this driver doesn't implement it yet.