



# **I2C 2005-1 Demonstration Board Training Presentation**

Oct, 2006



# Training Agenda

- ✓ 1. I2C Demonstration Board 2005-1 Set up and GUI operation
- ✓ 2. I<sup>2</sup>C-bus Protocol
- ✓ 3. Multiplexers/Switches/Voltage Translation & Hands-on
- ✓ 4. LED Dimmers/Blinkers & Hands-on
- ✓ 5. GPIO
- ✓ 6. EEPROMs
- ✓ 7. Real Time Clocks
- ✓ 8. I<sup>2</sup>C Bus Master Selector
- ✓ 9. Temperature Sensors

# I<sup>2</sup>C Device Data Sheets, IBIS models Application Notes and Other Information



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Main Logic I<sup>2</sup>C Interface Microcontrollers Analog RF



## Standard ICs

NXP Semiconductors brings you a broad portfolio of advanced, trendsetting standard ICs **products**. Our portfolio includes standard and specialty **Logic, I<sup>2</sup>C Logic**, innovative **Interface** products, **Microcontrollers, Analog**, and **RF**.



### UART to I<sup>2</sup>C master/GPIO bridge demo board

New demo board shows it's easy to connect an I<sup>2</sup>C device over a serial connection.

### Updates

- Expanded PCA IBIS models
- New LPC24xx MCUs leaflet
- SC18IS600 SPI slave to I<sup>2</sup>C master bridge demo board
- SC18IM700 UART to I<sup>2</sup>C master bridge demo board
- New LPC23xx MCUs leaflet
- LPC23xx device highlight
- LPC24xx device highlight
- Keil MCB2300 eval boards
- Code for LPC23xx peripherals
- NicheLite for LPC TCP/IP stack

[www.nxp.com/i2c](http://www.nxp.com/i2c) or [www.nxp.com/i2clogic](http://www.nxp.com/i2clogic)

Product family descriptions  
line cards  
cross reference data sheets

Link to app notes models user guides PLL design software datasheets



# Easy Access to I<sup>2</sup>C Technical Help





Three easy ways to ask technical questions and obtain answers

## I<sup>2</sup>C discussion Forum

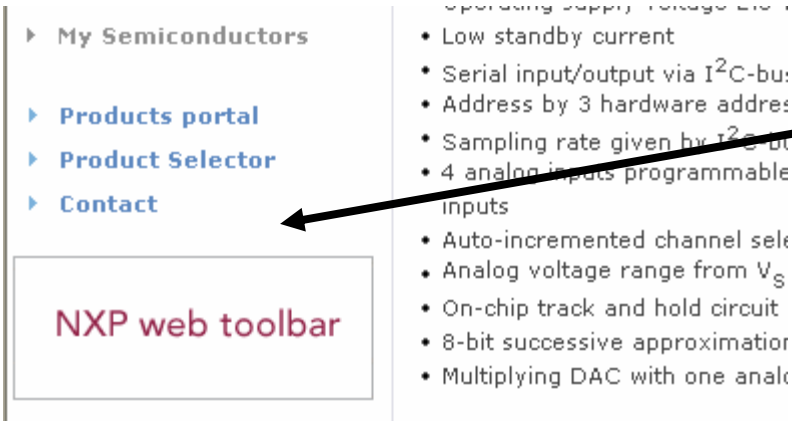
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	<a href="#">LPC21XX Slave Port</a>	0	<a href="#">Paul Shubel</a>	565	Fri Jul 21, 2006 5:47 pm <a href="#">Paul Shubel</a> → 

Access I<sup>2</sup>C Discussion Forum from > [www.nxp.com/i2c](http://www.nxp.com/i2c)



Operating supply, tolerance etc...

- Low standby current
- Serial input/output via I<sup>2</sup>C-bus
- Address by 3 hardware addresses
- Sampling rate given by I<sup>2</sup>C bit
- 4 analog inputs programmable inputs
- Auto-incremented channel selection
- Analog voltage range from V<sub>S</sub>
- On-chip track and hold circuit
- 8-bit successive approximation
- Multiplying DAC with one analog input

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