

LPC Super I/O IrDA Hot Docking Chip with UART

PRODUCT FEATURES

Data Brief

- 3.3 Volt Operation (5V tolerant)
- Programmable Wakeup Event Interface (IO_PME# Pin)
- SMI Support (IO_SMI# Pin)
- GPIOs (16)
 - Programmable internal pull-up resistors
- Two IRQ Input Pins
- XNOR Chain
- PC99a and ACPI 1.0 Compliant
- 64 PIN STQFP Lead-free RoHS Compliant Package
- Intelligent Auto Power Management
- One Full Function Serial Port
 - High Speed 16C550A Compatible UARTs with Send/Receive 16-Byte FIFOs
 - Supports 230k and 460k Baud
 - Programmable Baud Rate Generator
 - Modem Control Circuitry
- Infrared Communications Controller
 - IrDA v1.2 (4Mbps), HPSIR, ASKIR, Consumer IR Support
 - 2 IR Ports
 - 96 Base I/O Address, 15 IRQ Options and 3 DMA Options
- LPC Bus Host Interface
 - Multiplexed Command, Address and Data Bus
 - 8-Bit I/O Transfers
 - 8-Bit DMA Transfers
 - 16-Bit Address Qualification
 - Serial IRQ Interface Compatible with Serialized IRQ Support for PCI Systems
 - PCI nCLKRUN Support
 - Power Management Event (IO_PME#) Interface Pin
- LPC PortSwitchTM Interface
 - Secondary Switchable LPC Interface (3.3V only)
 - Buffered 14 MHz output
 - Switched PCI Clock output

ORDER NUMBER:**LPC47N207-JV FOR 64 PIN, STQFP LEAD-FREE ROHS COMPLIANT PACKAGE**

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General Description

The SMSC LPC47N207 is a 3.3V PC 99 and ACPI 1.0 compliant Super I/O Controller. The LPC47N207 implements the LPC interface with the LPC PortSwitch™ Interface. The LPC PortSwitch™ Interface is a hot-switchable external Docking LPC interface. The LPC47N207 also features a full 16-bit internally decoded address bus, a Serial IRQ interface with PCI nCLKRUN support, relocatable configuration ports and three DMA channel options. The part also includes 16 GPIO pins.

The LPC47N207 incorporates one 8-pin 16C550A compatible UART. In addition, the LPC47N207 provides a second UART to support a Serial Infrared Interface that complies with IrDA v1.2 (Fast IR), HPSIR, and ASKIR formats (used by Sharp and other PDAs), as well as Consumer IR.

The LPC47N207 incorporates sophisticated power control circuitry (PCC). The PCC supports multiple low power down modes. The LPC47N207 also features Software Configurable Logic (SCL) for ease of use. SCL allows programmable system configuration of key functions such as the UARTs.

The LPC47N207 supports the ISA Plug-and-Play Standard register set (Version 1.0a) and provides the recommended functionality to support Windows '9x, 2K, ME, XP and PC99. The I/O Address, DMA Channel and Hardware IRQ of each device in the LPC47N207 may be reprogrammed through the internal configuration registers. There are 192 I/O address location options, a Serialized IRQ interface, and three DMA channels.

Block Diagram

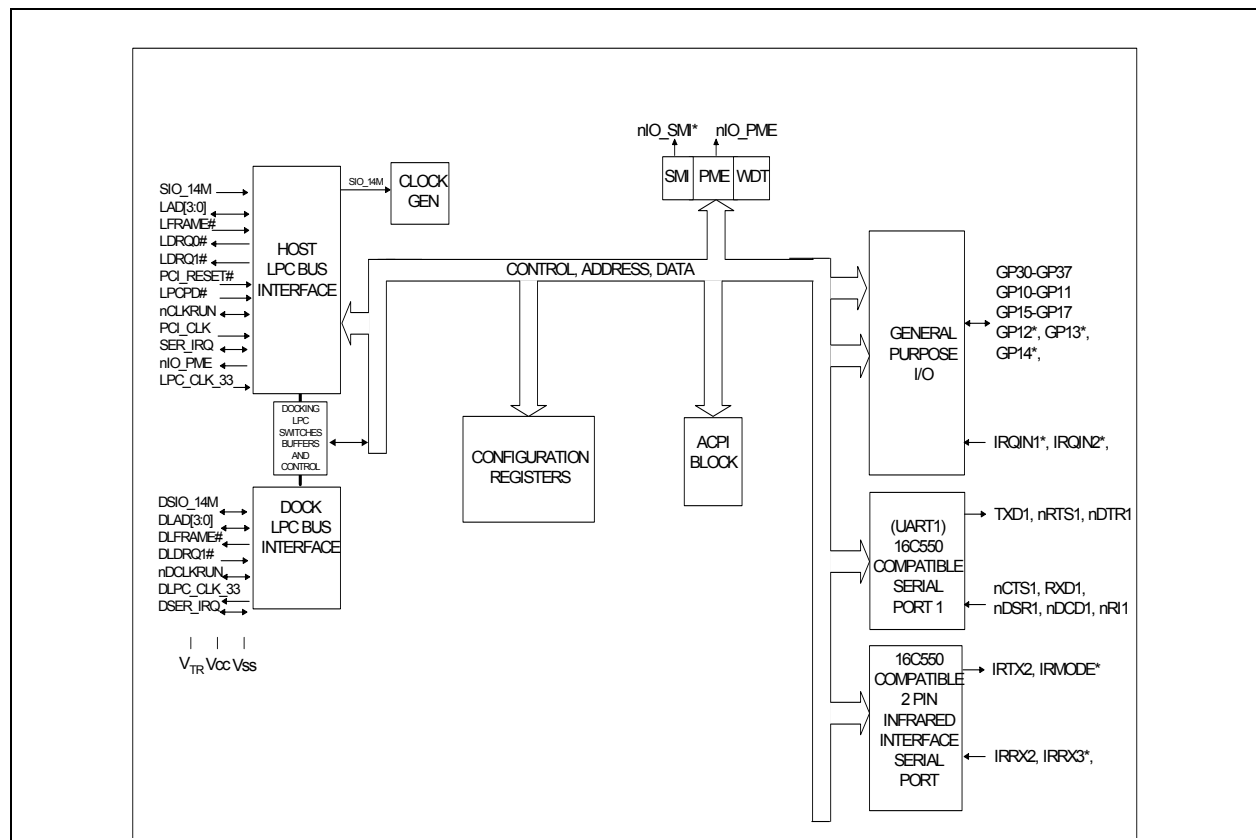


Figure 1 Block Diagram

Package Outline

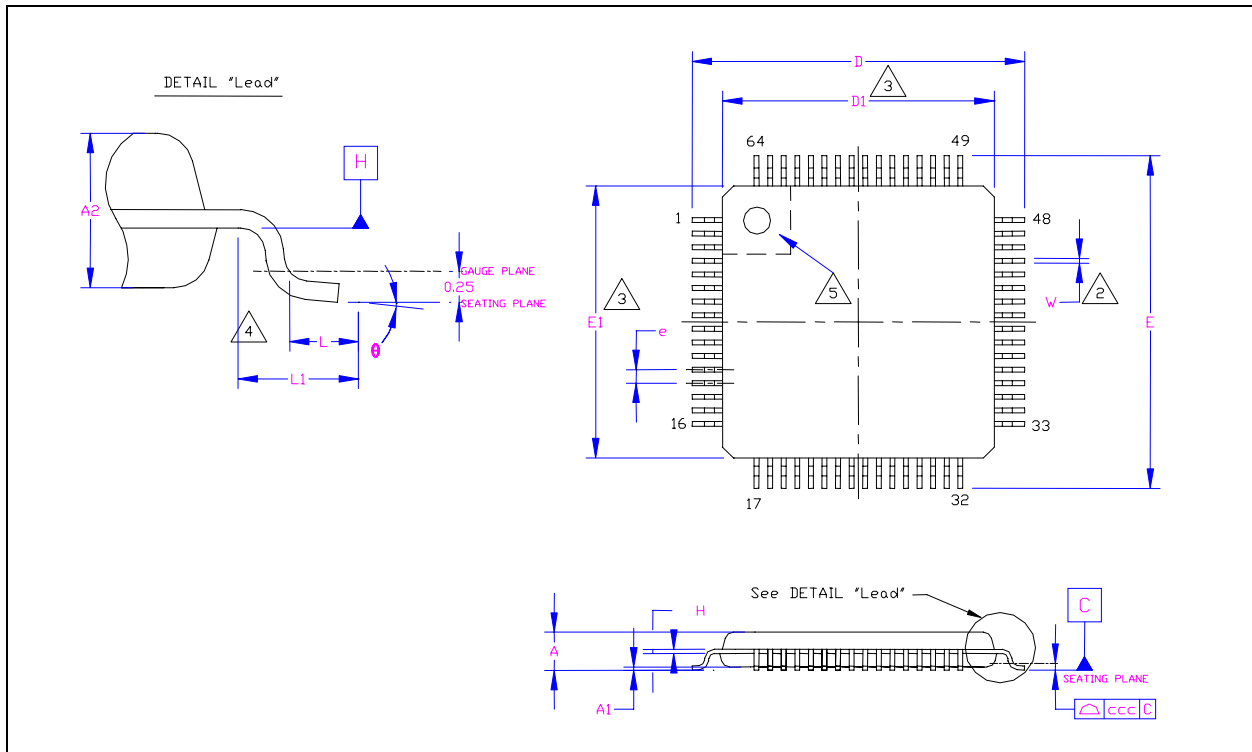


Figure 2 64-pin STQFP Package Outline

Table 1 64-pin STQFP Package Parameters

	MIN	NOMINAL	MAX	REMARKS
A	~	~	1.60	Overall Package Height
A1	0.05	~	0.15	Standoff
A2	1.35	1.40	1.45	Body Thickness
D	8.80	9.00	9.20	X Span
D1	6.80	7.00	7.20	X body Size
E	8.80	9.00	9.20	Y Span
E1	6.80	7.00	7.20	Y body Size
H	0.09	~	0.20	Lead Frame Thickness
L	0.45	0.60	0.75	Lead Foot Length
L1	~	1.00 REF.	~	Lead Length
e	0.40 Basic			Lead Pitch
θ	0°	~	7°	Lead Foot Angle
W	0.13	0.18	0.23	Lead Width
ccc	~	~	0.08	Coplanarity

Notes:

- Controlling Unit: millimeter.
- Tolerance on the true position of the leads is ± 0.035 mm maximum.
- Package body dimensions D1 and E1 do not include the mold protrusion.
- Maximum mold protrusion is 0.25 mm per side. D1 and E1 dimensions determined at datum plane H.
- Dimension for foot length L measured at the gauge plane 0.25 mm above the seating plane.
- Details of pin 1 identifier are optional but must be located within the zone indicated.

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