



80 ARKAY DRIVE, HAUPPAUGE, NY 11788 (631) 435-6000, FAX (631) 273-3123

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PRODUCT PREVIEW

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The SMSC LPC47N217 is a 3.3V PC 99, PC2001, and ACPI 2.0 compliant Super I/O Controller. The LPC47N217 implements the LPC interface, a pin reduced ISA interface which provides the same or better performance as the ISA/X-bus with a substantial savings in pins used. The part also includes 14 GPIO pins.

The LPC47N217 incorporates a 16C550A compatible UART and one Multi-Mode parallel port with ChiProtect[™] circuitry plus EPP and ECP support. This device also offers a full 16-bit internally decoded address bus, a Serial IRQ interface with PCI CLKRUN# support, relocatable configuration ports, and three DMA channel options.

The on-chip UART is compatible with the 16C550A. There is a dedicated Serial Infrared interface UART, which complies with IrDA v1.2 (Fast IR), HPSIR, and ASKIR formats (used by Sharp and other PDAs), as well as Consumer IR.

The parallel port is compatible with IBM PC/AT architectures, as well as IEEE 1284 EPP and ECP. The parallel port ChiProtect[™] circuitry prevents damage caused by an attached powered printer when the LPC47N217 is not powered.

The LPC47N217 features Software Configurable Logic (SCL) for ease of use. SCL allows programmable system configuration of key functions such as the parallel port and UART.

The LPC47N217 supports the ISA Plug-and-Play Standard register set (Version 1.0a) and provides the recommended functionality to support Windows operating systems, PC99, and PC2001. The I/O Address, DMA Channel, and Hardware IRQ of each device in the LPC47N217 may be reprogrammed through the internal configuration registers. There are multiple I/O address location options, a Serialized IRQ interface, and three DMA channels.

PRODUCT PREVIEW



Block Diagram

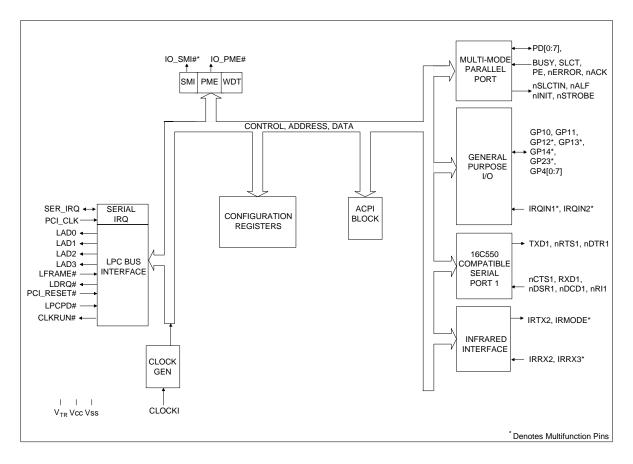


Figure 1 - LPC47N217 Block Diagram

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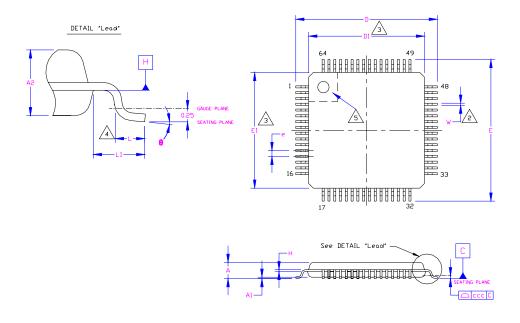


Figure 2 - 64 Pin STQFP Package Outline, 7x7x1.4 Body, 2 MM Footprint

 Table 1 - 64 Pin STQFP Package Parameters

	MIN	NOMINAL	MAX	REMARKS
Α	~	~	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
Е	8.80	9.00	9.20	Y Span
E1	6.80	7.00	7.20	Y body Size
Н	0.09	~	0.20	Lead Frame Thickness
L	0.45	0.60	0.75	Lead Foot Length
L1	~	1.00 REF.	~	Lead Length
е	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:

- 1. Controlling Unit: millimeter.
- 2. 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.
- 4. Dimension for foot length L measured at the gauge plane 0.25 mm above the seating plane.
- 5. Details of pin 1 identifier are optional but must be located within the zone indicated.

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