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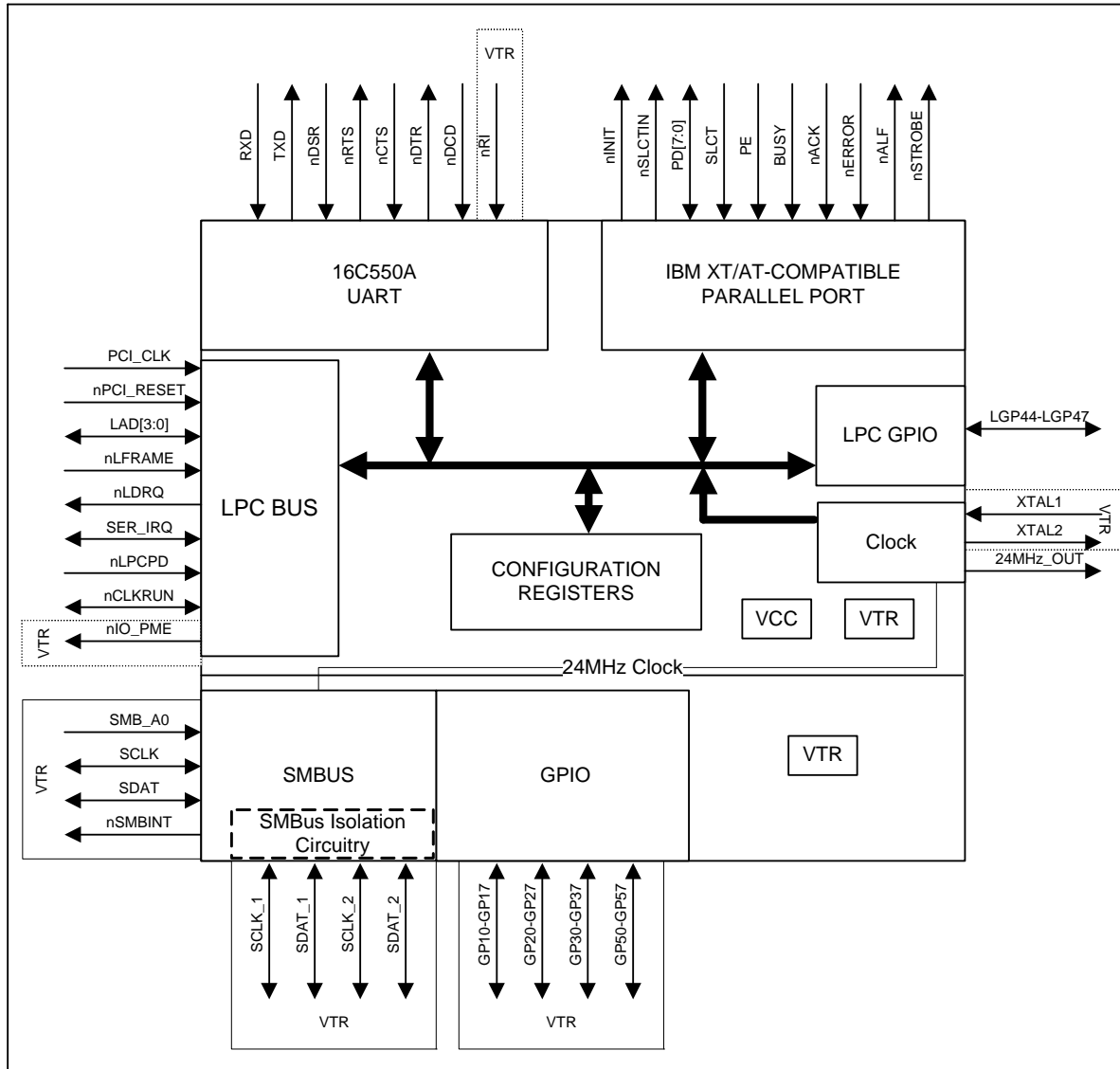
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BLOCK DIAGRAM

FIGURE 1: LPC47N237 BLOCK DIAGRAM

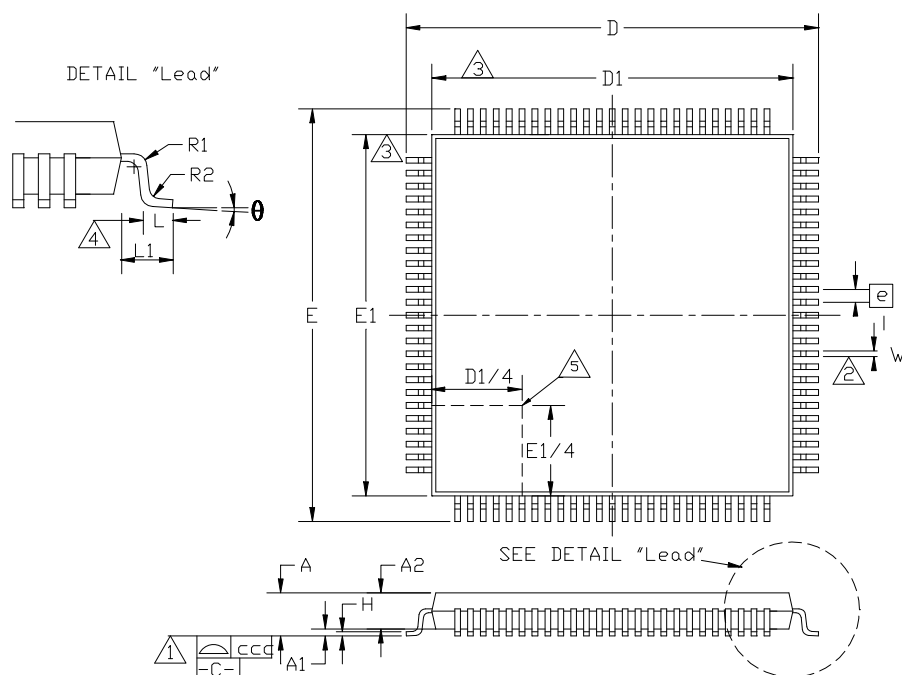


LPC47N237

PACKAGE OUTLINE

Note: For the most current package drawings, see the Microchip Packaging Specification at <http://www.microchip.com/packaging>.

FIGURE 2: LPC47N237 100-PIN TQFP PACKAGE



| | Min | Nominal | Max | Remarks |
|-----|------------|---------|-------|------------------------|
| A | ~ | ~ | 1.60 | Overall Package Height |
| A1 | 0.05 | ~ | 0.15 | Standoff |
| A2 | 1.35 | ~ | 1.45 | Body Thickness |
| D | 15.80 | ~ | 16.20 | X Span |
| D1 | 13.90 | ~ | 14.10 | X body Size |
| E | 15.80 | ~ | 16.20 | Y Span |
| E1 | 13.90 | ~ | 14.10 | Y body Size |
| H | 0.09 | ~ | 0.20 | Lead Frame Thickness |
| L | 0.45 | 0.60 | 0.75 | Lead Foot Length |
| L1 | ~ | 1.00 | ~ | Lead Length |
| e | 0.50 Basic | | | Lead Pitch |
| θ | 0° | ~ | 7° | Lead Foot Angle |
| W | 0.17 | 0.22 | 0.27 | Lead Width |
| R1 | 0.08 | ~ | ~ | Lead Shoulder Radius |
| R2 | 0.08 | ~ | 0.20 | Lead Foot Radius |
| ccc | ~ | ~ | 0.08 | Coplanarity |

- Controlling Unit: millimeter.
- Tolerance on the position of the leads is ± 0.04 mm maximum.
- Package body dimensions D1 and E1 do not include the mold protrusion. Maximum mold protrusion is 0.25 mm.
- 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.

APPENDIX A: PRODUCT BRIEF REVISION HISTORY

TABLE A-1: REVISION HISTORY

| Revision | Section/Figure/Entry | Correction |
|------------------------|--|------------|
| DS00001811A (08-07-14) | Replaces previous SMSC version Rev. 0.3 (03-30-07) | |

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| | | | | |
|--------------------------------|---|---------------------------|---|---------------------------|
| <u>PART NO.</u> ⁽¹⁾ | - | <u>XXX</u> ⁽²⁾ | - | <u>IX1</u> ⁽³⁾ |
| Device | | Package | | Tape and Reel Option |

| | | |
|-----------------------|-----------|--------------------------------|
| Device: | LPC47N237 | ⁽¹⁾ |
| Package: | MT | = 100-pin TQFP ⁽²⁾ |
| Tape and Reel Option: | Blank | = Tray packaging |
| | TR | = Tape and Reel ⁽³⁾ |

Example:

LPC47N237-MT = 100-pin TQFP

Note 1: These products meet the halogen maximum concentration values per IEC61249-2-21.

Note 2: All package options are RoHS compliant. For RoHS compliance and environmental information, please visit <http://www.microchip.com/pagehandler/en-us/aboutus/ehs.html>.

Note 3: Tape and Reel identifier only appears in the catalog part number description. This identifier is used for ordering purposes and is not printed on the device package. Check with your Microchip Sales Office for package availability with the Tape and Reel option.

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