

Cost-Optimized Input/Output Hub (IOH) LSIs For Intel®Atom™processor E600

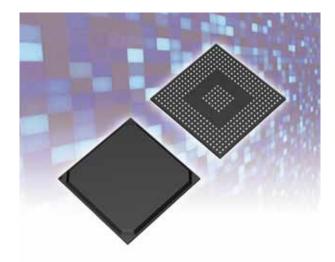
ML7831; Pin-Compatible to Intel® Platform Controller Hub LSI, EG20T

NEW

LAPIS Semiconductor

LSI

Product Overview



ML7831

パッケージ: PBGA376

- Connects to E600 via PCI Express[®] x1
- Pin-compatible with Intel's[®] EG20T Platform Controller Hub LSI
- Compatible device drivers (except for vendor IDs)
- Supports temperature ranges required for industrial applications
- Optimized for use with ROHM PMICs (Power Management ICs) and CGICs (Clock Generator ICs) for Intel[®] Atom™ E600

PMIC	5V	BD9591AMWV
	12V	BD9594AMWV
CGIC		BU7335MWV

Major Specification

- Operating voltages: 1.2V, 2.5V, 3.3V
- Operating Temperature: -40 to +85 °C
- Package: PBGA376
- Functions
 - ·PCI Express® 1.1
 - ·USB2.0 Host (HS/FS/LS) with DMA
 - ·USB2.0 Device (HS/FS) with DMA
 - ·SD Host with DMA (supports SDIO; 32GB max.)
 - ·Serial ATA II with DMA
 - ·Gigabit Ethernet MAC with DMA (supports Jumbo Frame)
 - ·8-line UART with 256-byte FIFO
 - ·2-line UART (TXD, RXD) with 64-byte FIFO
 - ·SPI ·I2C ·GPIO

CHOOSE A JUST-FIT IOH FOR BOM REDUCTION*1!

The ML7831 is an IOH (Input/Output Hub) LSI designed to connect to Intel® Atom™ processor E600 via PCI Express®. LAPIS Semiconductor characterizes the ML7831 as a cost-optimized version to Intel® Platform Controller Hub LSI,

EG20T (formerly known as Topcliff) while it still keeps pin-compatiblity to the EG20T.

Not only the pin-compatibility to the EG2OT but also common device driver software makes your re-engineering workload as minimized as possible.

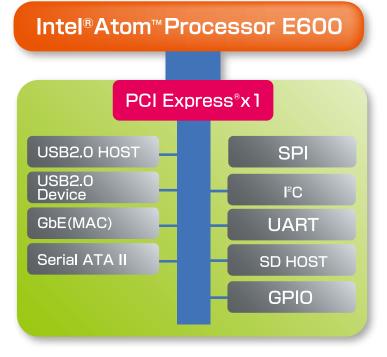


*1) Pricing depends on a number of variables, including the order quantity and supply chain. Therefore, specific prices cannot be guaranteed.

Application Examples

·Industrial PC ·Thin Client ·Point-of-Sales ·Digital signage ·FA (Factory Automation) equipment ·And more

Block Diagrams



For more information, please contact your closest ROHM sales office.



http://www.lapis-semi.com/en