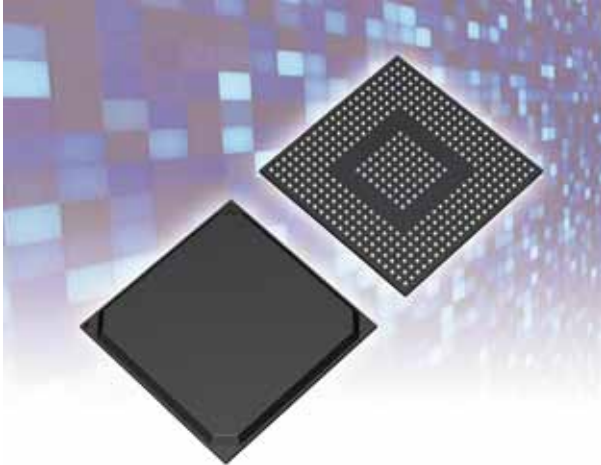


Product Overview



ML7223 / ML7223V Package : PBGA404

- Connects to the E600 via 2 lines of PCI Express® x1 with network-related functions utilizing secure QoS
- Supports Gigabit Ether MAC and IPsec hardware accelerators
- Compatible with video input for camera connection
- V version (ML7223V) provides echo and noise cancellers for hands-free communication

PMIC	5V	BD9591AMWV
	12V	BD9594AMWV
CGIC		BU7335MWV

Major Specification

- Operating voltages: 1.2V, 2.5V, 3.3V
- Operating Temperature : -40 to +85 °C
- Package : PBGA404
- Functions
 - PCI Express® 1.1 x2
 - USB2.0 Host
 - SD Host (SDIO)
 - Serial ATA II
 - Gigabit Ethernet MAC
 - Security (3DES, AES, SHA1/256/MD5)
 - Acoustic/line echo and noise cancellation (ML7223V only)
 - BT656/RAW input
 - UART, SPI, I2C, I2S, TDM (supports McASP)
 - GPIO, DMA

The ML7223/7223V is an IOH (Input/Output Hub) LSI are designed to connect to Intel® Atom™ Processor E600 via PCI Express®. The IOHs integrate a variety of IOs, such as USB, SATA, SD Card, video input, UART, and I2S, and support high-speed bus connection to an external FPGA for greater connectivity.

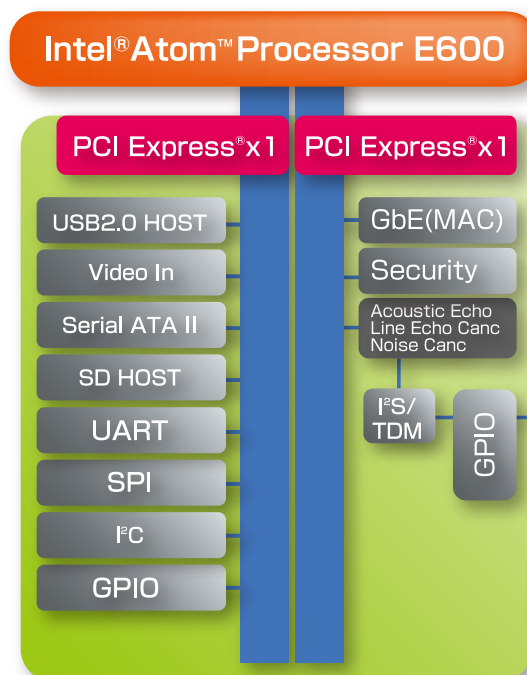
Additional features include support for Gigabit Ether MAC and IPsec hardware accelerators. The ML7223V also includes echo and noise cancellers for hands-free operation (speakerphone mode) - essential for communication terminals.

Application Examples

- IP media phone
- Digital signage
- FA (Factory Automation) equipment
- Industrial PCs
- Etc.



Block Diagrams



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