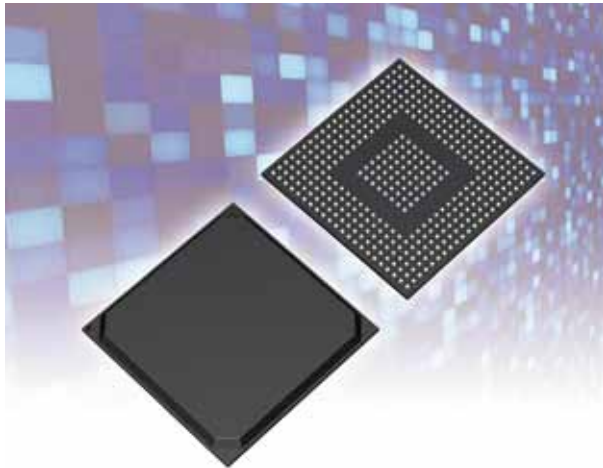


## Product Overview



### ML7213

Package : PBGA404

- Connects to the E600 via PCI Express® x1
- Converts SDVO to digital RGB
- Multiple audio interfaces: 6 x I2S + 2 x TDM
- Supports video input for camera connection
- Wide operating temperature range meets automotive requirements
- Optimized for use with ROHM Power Management ICs (PMIC) and Clock Generator ICs (CGIC) for Intel® E600 processors.

PMIC	5V	BD9591AMWV
	12V	BD9594AMWV
CGIC		BU7335MWV

## Major Specification

- Operating voltages: 1.2V, 2.5V, 3.3V
- Operating temperature range: -40C to +85C
- Package: PBGA404
- Functions
  - PCI Express® 1.1 x 1
  - USB2.0 host
  - USB2.0 host/device switchable
  - SD host (SDIO)
  - Serial ATA II
  - Media LB®
  - BT656/RAW input
  - SDVO input/RGB output
  - UART, SPI, I2C, I2S, TDM (supports McASP)
  - GPIO, DMA

The ML7213 is an IOH (Input/Output Hub) LSI designed to connect to Intel® Atom™ Processor E600 via PCI Express®. The IOH integrates a variety of IOs, such as USB, SATA, SD Card, video input, UART, and I2S, and supports high-speed bus connection to an external FPGA for greater connectivity.

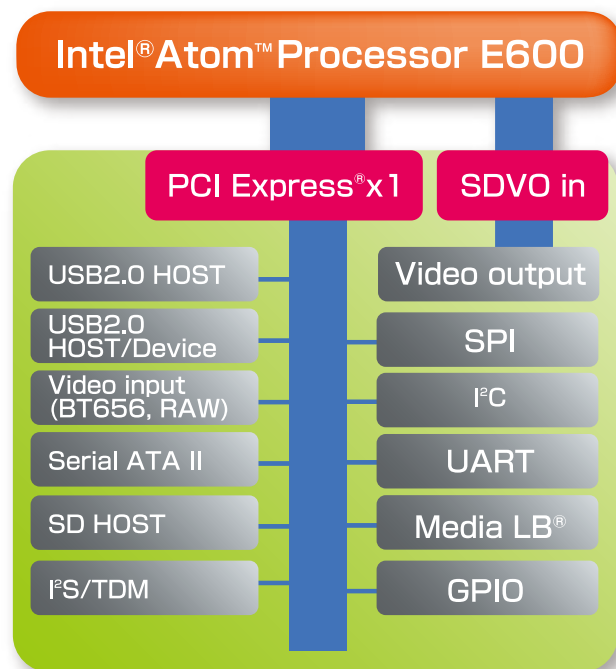
In addition, an SVDO converter is built in, enabling direct connection to RGB panels.

### Application Examples

- In-vehicle infotainment
- Car navigation systems
- Digital signage
- FA (Factory Automation) equipment
- Industrial devices
- And more



## Block Diagrams



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