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Product Profile

MB86619

IEEE 1394 Serial Bus Controller for DTV

September 2002 Edition 1.00

FUJITSU

OVERVIEW

The MB86619 is one member of Fujitsu's 1394 serial bus controller family, compliant with IEEE1394 standard (IEEE Std 1394-1995, 1394a-2000). This controller has two exclusive ports for isochronous transfer (MPEG-TS, DV) and three ports for 1394 network including differential transceivers and compurgators.

The MB86619 integrates PHY layer, LINK layer and copy protection part (DTCP) supporting 400Mbps data transfer rate. This level of integration let this device aim a significant reduction of board mounting space and power consumption.

FEATURES

- Compliant with IEEE1394-1995 and 1394.a-2000 high speed serial bus standard
- Integrate PHY layer and the LINK layer in the single-chip
- Three 1394 cable ports
- Transfer data rate: S100, S200 and S400
- Supports AV protocol (IEC1883 Part1-7: MPEG-TS, DSS, DV, Audio)
- Supports SBP-2 protocol with read/write chain transfer mode
- Supports Asynchronous serial bus connection
- Isochronous transmit/receive FIFO is 4Kbytes* 2 channels
- Asynchronous transmit/receive FIFO is 512 bytes
- Asynchronous extended transmit/receive FIFO is 2Kbytes
- Automatic separation and picketing for the Isochronous packet header and data
- Two exclusive ports for Isochronous transfer (8 bit bus)
- IEC60958 and three line type input-output port for the audio data transfer.
- · Integrate copy protect function compliant with DTCP
- 16bits MPU/DMA common or separate bus interlace
- Power-supply voltage 3.3V for IO and 2.5V for internal logic
- Package LQFP-176 (FPT-176P-M03)



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Block Diagramm

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