

MB86619

IEEE 1394 Serial Bus Controller for DTV

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FME/MM/PP/0902

OVERVIEW

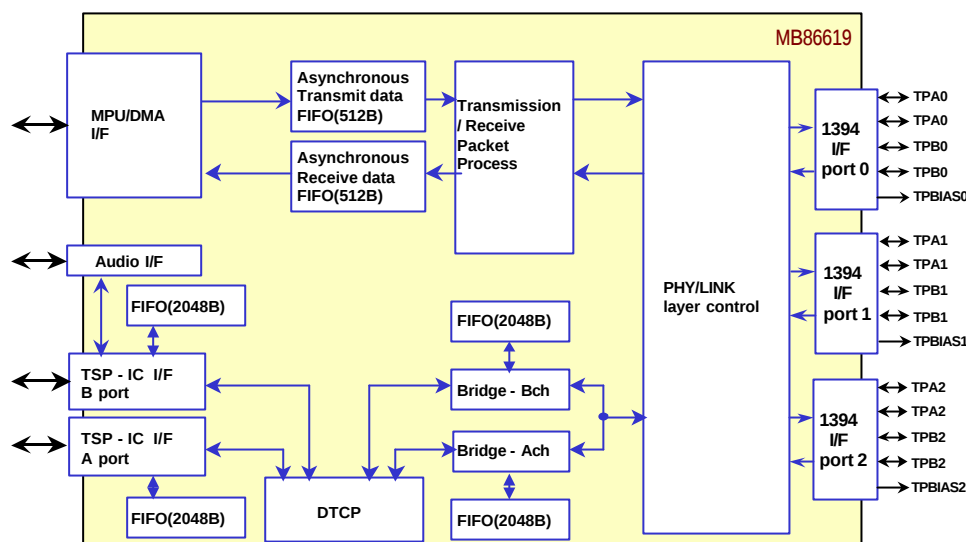
The **MB86619** is one member of Fujitsu's 1394 serial bus controller family, compliant with IEEE1394 standard (IEEE Std 1394-1995, 1394a-2000). This controller has two exclusive ports for isochronous transfer (MPEG-TS, DV) and three ports for 1394 network including differential transceivers and compurgators.

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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