

Attachment

Key Specifications of the MB88395 1394 Automotive IC

Product	MB88395
Physical layer	Complies with IEEE-1394-2008 (*1) Max speed 800 Mbps, 2 beta port
Link layer	Complies with IEEE1394-2008
DTCP functionality	Simultaneous encryption and decryption of two streams
Transport protocol support	<ul style="list-style-type: none">• IEC61883-Part 8 (BT.601) (*2)• IEC61883-Part 6(Audio) (*3)
Video interface	BT.656 or Digital RGB I/O (switchable)
Audio interface	I ² S (*4) 8-channel or IEC60958 (*5) I/O (switchable)
SmartCODEC	Included
Operating voltage	3.3V±0.3V (I/O), 1.2V±0.1V (Internal)
Operating temperature	-40°C ~ 95°C
Packaging	FBGA (*6) 224 pins, 0.8 mm pitch, 16 mm x 16 mm

***1. IEEE-1394-2008:**

An extension to the older IEEE1394a-2000 high-speed serial-bus standard used for PCs and audio-visual equipment. Enables faster transmission speeds and transmission across longer distances. This standard has also been adopted for 1394 Automotive.

***2. IEC61883-Part 8 (BT.601):**

IEC61883 is a transmission protocol established by the International Electrotechnical Commission, for digital interfaces of audio and visual equipments.

BT.601 Transport Over IEEE-1394 is in the process of being ratified as Part 8.

***3. IEC61883-Part 6 (Audio):**

A protocol for streaming audio over 1394 Automotive.

***4. I²S:**

Stands for "Inter-IC Sound Bus." An interface standard for connecting digital audio equipment.

***5. IEC60958:**

A standard established by the International Electrotechnical Commission for digitally transmitting audio signals.

***6. FBGA(Fine pitch Ball Grid Array)**

A type of surface-mounted packaging.