

## Key Specifications of the MB88395 1394 Automotive IC

Product	MB88395
Physical layer	Complies with IEEE-1394-2008 <sup>(*1)</sup> Maximum data bandwidth 800Mbps, 2 beta ports
Link layer	Complies with IEEE1394-2008
DTCP functionality	Simultaneous encryption and decryption of two streams
Transport protocol support	IEC61883-Part 8 (BT.601) <sup>(*2)</sup> IEC61883-Part 6(Audio) <sup>(*3)</sup>
Video interface	BT.656 or Digital RGB I/O (switchable)
Audio interface	I <sup>2</sup> S <sup>(*4)</sup> 8-channel or IEC60958 <sup>(*5)</sup> 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 224-pins, 0.8mm pitch, 16 x 16mm

\*1. **IEEE-1394-2008**: This is an extension to the older IEEE1394a-2000 high-speed serial-bus standard used for PCs and audio-visual equipment. It enables faster transmission speeds and transmission across longer distances. This standard has also been adopted for IDB-1394.

\*2. **IEC61883-Part 8 (BT.601)**: IEC611883 is a transmission protocol established by the International Electrotechnical Commission for the digital interfaces of audio and visual equipment. BT.601 Transport over IEEE-1394 is in the process of being ratified as Part 8.

\*3. **IEC61883-Part 6 (Audio)**: This is a protocol for streaming audio over 1394 Automotive.

\*4. **I<sup>2</sup>S**: This stands for 'Inter-IC Sound Bus' and is an interface standard for connecting digital audio equipment.

\*5. **IEC60958**: This is a standard established by the International Electrotechnical Commission for digitally transmitting audio signals.