

Epson Launches In-Vehicle USB Controller LSIs with Expanded Guaranteed Operating Temperature

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Seiko Epson Corp. will launch a lineup of USB controller LSI products with expanded guaranteed operating temperatures for in-vehicle use.

As the first step in producing this new line-up for in-vehicle use, the guaranteed operating temperature range of -20°C to 85°C of the S1R72005 LSI series for USB On-The-Go (OTG) controllers was expanded to -40°C to 85°C .

The main products targeted for the new S1R72005 are anticipated to be car audio and car navigation systems.

Because digital media players and portable audio devices have undergone such explosive growth recently, the need has arisen for a connection interface capable of connecting these devices directly with in-vehicle products, such as car audio and car navigation systems. With the new S1R72005 USB interface on board, it becomes possible for a portable audio device or other such devices to be easily connected with an in-vehicle car audio system.

Epson has enlisted the cooperation of a number of solution partners, who will provide strong support for the smooth and efficient development of new products that will incorporate the new S1R72005.

Partners involved in the development of products incorporating

S1R72005 include Grape Systems Inc., Heartland Data Co., Insight International Corporation, MCCI (Moore Computer Consultants Inc.), and System Technology Integrated Laboratory Inc.

USB controller LSI products are an indispensable component for in-vehicle interface controller LSIs, and Epson will continue to expand its lineup of products.

Features

- Host function, peripheral function, and OTG function are integrated on a single-chip
- Supports OTG Ver.1 Full Speed (FS) 12Mbps transfer
- Supports control, bulk, interrupt, and isochronous transfers
- Supports five general Endpoints and Endpoint 0
- Accommodates inputs from a 12MHz crystal oscillator with built-in oscillation circuit and from 12/27/48MHz crystal oscillators
- Operates at both 3.3V and 2.5V power supplies (3.3V at the I/O power source and 2.5V internally)
- Available in a 64-pin thin QFP package or 81-pin PFBGA package
- Operating temperature range: -40°C to 85°C

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