

# Full Linux support

**Silica (Germany) has expanded its brand Architech with the addition of Hachiko. It is a development board that offers a streamlined platform for Linux based designs. It also provides CAN support.**

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(Photo: Silica)

THE BOARD IS SUPPLIED WITH A LINUX KERNEL, optimized for the Renesas RZ/A1H MCU, to work with a small memory footprint together with a BSP (Board Support Package) for the on-board peripherals. The developers at the company have ported GUI (graphical user interface) libraries to the distribution with a demo application and the source code is available in open source.

The Renesas RZ/A1H processor used in the board is based on the ARM Cortex A9 MCU core and offers a capacity of 10 MiB RAM. This allows a high data throughput at low latencies without the use of external DDR and a simplified power design. Other features include an HDMI output, a USB host, 128 MiB Spifi, an Ethernet port, and an expansion connector for all unused pins. Hachiko also offers CAN and Most channels for in-car entertainment applications. Options include SDRAM and a 7-inch wide LCD touch screen with drivers included in the BSP.

The product has been developed as a reference design that can be replicated for production for applications including door entry phones, vending machines, barcode scanners, surveillance, and data communication modules.