

Odkazy

[Sponzor](#) Renesas Technology Corp. predstavila dva nové MCU: **SH74552 a SH74562** s On-Chip Flash pamäťou v BGA puzdriach pre "Advanced Driver Assistance Systems" aplikácie. [SH74552KBC Data sheet](#)
[SH74562KBC Data sheet](#)
Skupina procesorov SH7455 a 7456, je vysoko výkonný RISC mikrokontrolér s 32-bit SH-4A CPU jadrom.

Pracuje na maximálnej frekvencii 160MHz, výkon CPU má cez 288 MIPS, podporuje jednoduchú a rozšírenú floating point aritmetiku a dosahuje maximálny výkon 1.12 GFLOPS.

[Distribúcia](#) [vid'. Adresár](#) *vstup iba pre registrovaných členov

Vlastnosti

- Operating frequency: 160 MHz
- Performance
 - CPU: 288 MIPS, FPU: 1.12 GFLOPS
- On-chip large capacity memory
 - ROM: 1MB
 - RAM: 256 KB + 8 KB + 16 KB (Total: 280 KB)
high-speed RAM for instruction: 8 KB, high-speed RAM for data: 16 KB, medium-speed large capacity RAM: 256 KB
- Cache memory: divided into 32 Kbytes instruction and 32 Kbytes data, 4-way set associative
- FlexRay
 - module (compliant with FlexRay 2.1 specifications): 1 module (2 ch)
- Peripheral functions
 - Timer ATU-IIIS: 59 ch
 - A/D converter: 12-bit, 16 ch (8 + 8) 2 modules
 - Direct memory access controller (DMAC): 12 ch
 - Direct RAM input interface (DRI): 2 ch
 - Direct RAM output interface (DRO): 1 ch
 - Parallel DAC control interface (PDAC): 1 ch
 - Parallel selector (PSEL): 1 ch
 - Serial communication interface: 7 ch
 - Controller area network (CAN): 4 ch (64 message slot)
 - Clock generator: multiplication PLL
 - On-chip debugging function (H-UDI)
 - RAM monitor function (AUDR)
- Package: BGA176 (13 mm x 13 mm, 0.8 mm pin pitch)

*FlexRay is a registered trademark of Daimler Chrysler AG. Only the SH7455 has 1 module (2 ch).

Blokové zapojenie