

Separate Sheet

**Product Specifications of the RH850/V1R-M MCU**

Group	RH850/V1R-M
CPU	320MHz G3MH (1046 DMIPS) × 2
DSP	320 MHz x 1
Code Flash	2 MB
Data Flash	64 kB
RAM	2 MB
DMA	16 (DMAC) / 128 (DTS)
Timer	OS Timer (OSTM): 16 unit Watchdog Timer (WDTA): 3 unit Timer Array Unit D (TAUD): 2 unit (16 ch/unit) Timer Array Unit J (TAUJ): 2 unit (4 ch/unit)
Communication	CAN Interface (RS-CANFD) : 6 units Flex Ray Controller (FLX) : 1 unit Ethernet Controller (ETNA) : 1 unit Clocked Serial Interface H (CSIH) : 4 units High Speed Serial Peripheral Interface (HS-SPI) : 4 units LIN/UART Interface (RLIN3) : 1 unit  MIPI-CSI2 (MCSIA) : 3 units (4 lanes / unit)
12-bit ADC	A/D Converter (ADCF) : 2 units (10 ch / unit)

<b>Group</b>	<b>RH850/V1R-M</b>
Operation Voltage	3.3 V / 1.25 V
Other feature	Power on clear, Error control module, Data CRC, Core voltage monitor, Temperature sensor, Security module (ICU-SE)
Debug	Debug Control : JTAG, LPD Trace Interface: Aurora 2 lanes
Package	292-pin BGA (17 mm × 17 mm)

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