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# R8A77240D500BG

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☑ Product Spec    ☑ Order Information [Buy]    ☑ Package

## Product Spec

☑ Basic Information    ☑ Memory    ☑ CPU (Bit, Clock, DMA, External Bus etc)    ☑ Timers    ☑ Interfaces    ☑ Display Functions
☑ Operating Conditions

| Basic Information | |
|---|---|
| Product Status | Mass Production |
| Family | SuperH |
| Series | SH7780 |
| Group | SH7724 |

| Memory | |
|---|---|
| Program memory | 0 KB ROMless |
| RAM | 18 KB |
| Cache Memory Remark | 32K (Instruction), 32K (Data), 256K (L2 Cache), 4-way |

| CPU (Bit, Clock, DMA, External Bus etc) | |
|---|---|
| CPU | SH-4A (32-bit) |
| Max. Frequency | 500 MHz |
| PLL | YES |
| Real-Time Clock (RTC) | YES |
| Power-On Reset | YES |
| Memory Management Unit | YES |
| Floating Point Unit | YES |
| DMA Remarks | DMAC x 6ch x 2, 2D-DMAC x 8ch, SPU2 (DMAC x 3ch), EtherMAC(E-DMAC x 1ch) |
| External Address/Data Bus | YES |
| External Interrupt Pins | 9 |
| I/O Ports | 180 |

| Timers | |
|---|---|
| 16-bit Timers | 4 ch |
| 32-bit Timers | 7 ch |
| Watchdog Timers | 1 ch |
| PWM Output | 4 |

| Interfaces | |
|---|---|
| Ethernet | YES, 10Mbps/100Mbps |
| USB Ports | 2 |
| USB Host | YES |
| USB Peripheral | YES |
| USB High-Speed Support | YES |
| USB Remarks | Low-speed Support (Host only) |
| CSIs | 10 ch |
| SPIs | 2 ch |
| UARTs | 7 ch |
| I2Cs | 2 ch |
| Serial Interface Remarks | MSIOF (SCI:2ch/SPI:2ch), SCIF (SCI:3ch/UART:3ch), SCIFA (SCI:3ch/UART:3ch), IrDA (UART:1ch), FSI (SCI:2ch), I2C:2ch |

| Display Functions | |
|---|---|
| High-resolution display controller | LCDC :~SXGA, VOU : 720x240 |

| Operating Conditions | |
|---|---|
| Operating Voltage | 2.7 to 3.6 V |
| Power Supply | VccQ = VccQ_SDC = 2.7-3.6V, VccQ1 = VccQ_LCD = VccQ_VIO = VccQ_MMC = VccQ_SR = 1.65-1.95V/2.7-3.6V, AVcc = DV33 = AV33 = 3.0-3.6V, VDD = VDD_PLL = VDD_FLL = 1.25-1.36V, DV12 = AV12 = UV12 = 1.15-1.30V, VccQ_DDR = 1.7-1.9V |
| Operating Temperature | -40 to 85 ... (Ambient Temperature) |

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## Order Information

| Orderable Part No. ❓ | Order | Date of PLP Termination | Production Status ❓ | Packing |
|---|---|---|---|---|
| R8A77240D500BG#U0 | [Buy] | ◢ Mar. 2025 | Mass Production | Tray |

: Product participating in the Product Longevity Program. More information on the Product Longevity Program

Buy : Product can be purchased online.

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## Package

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| Package | |
|---|---|
| Pins | 449 |
| Pin pitch | 0.8 mm |
| Package Type | FBGA |
| Body Size | 21x21 mm$^2$ |
| Package drawing | prbg0449ga_a |
| Mount pad drawing | fig0013e |
| Mounting height | 1.9 mm |
| Mass | 1.4 g |
| Renesas code | PRBG0449GA-A (old: BP-449V) |
| JEITA code | P-FBGA449-21x21-0.80 |

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