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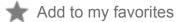
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R8A77800BDBG



Product Info Design Support Documentation Sample Code Software & Tools Ordering

Product Spec



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

Basic Information	
Product Status	Mass Production
Family	SuperH
Series	SH7780
Group	SH7780

Memory	
Program memory	0 KB ROMless
RAM	16 KB
Cache Memory Remark	32 KB (instruction), 32 KB (operand), 4-way set associative

CPU (Bit, Clock, DMA, External Bus etc)	
CPU	SH-4A (32-bit)

Recommended Product

Orderable Part Name	R8A77800BDBGV
Star Product	-
Product Longevity Program (PLP)	
Production	

Production Status	Mass Production
EU RoHS	-
RoHS-pdf (China-	-

Stock

RoHS)

Distributor

ARROW ELECTRONICS 28 INC.





Max. Frequency	400 MHz
PLL	YES
Real-Time Clock (RTC)	YES
Power-On Reset	YES
Memory Management Unit	YES
Floating Point Unit	YES
DMA Remarks	DMAC x 12 ch
External Address/Data Bus	YES
External Interrupt Pins	9
I/O Ports	83

Timers	
16-bit Timers	4 ch
32-bit Timers	6 ch
Watchdog Timers	1 ch

Interfaces	
CSIs	4 ch
SPIs	1 ch
UARTs	2 ch
Serial Interface Remarks	SCIF (CSI:2ch/UART:2ch), SIOF (CSI:1ch), HSPI (SPI:1ch), SSI (CSI:1ch)

Operating Conditions	
Operating Voltage	3 to 3.6 V
Power Supply	VDDQ = 3.0 to 3.6V, VDD = 1.25V
Operating Temperature	-40 to 85 ℃ (Ambient Temperature)





	Treat Treatment
Package	
Pins	449
Terminal pitch (mm)	0.8 mm
Package Type	FBGA
Dimensions (mm)	21x21 mm ²
Drawing Link	<u>≒</u> prbg0449ga_a
Mount pad	<u></u> fig0013e
Mounting height (mm)[MAX]	1.9 mm
Mass (g) [TYP,]	1.4 g
Renesas code	PRBG0449GA-A (old: BP-449V)
JEITA code	P-FBGA449-21x21-0.80
Terminal material - Base	Sn-Ag-Cu
Terminal material - Surface	-





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Product Info Design Support Documentation Sample Code Software & Tools Ordering

Orderable Part Name	Package Code	Production Status	Request Samples		Distributor Stock	Distributors	Distributor Purchase	EU RoHS	`	1000 Piece Budgetary Price	Star Product	Product Longevity Program (PLP)
R8A77800BDBGV	[object Object]	-	Mar, 2025	Mass Production	-	-	call	-	-	28	ARROW ELECTRONICS INC.	Buy
R8A77800BDBGGV	[object Object]	-	Mar, 2025	Mass Production	-	-	call	-	-	-	-	Contact

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Related Tool

Tools Orderable Part Number(s)	Production Status	Manufacturer	Suggested Single Tool Price	Description	Distributor Stock	Distributors	Distributor Purchase
YRTA-HEWSH-1UL	Mass Production	Renesas	\$2557.54	HEW IDE & C Compiler SH 1 User LAN	-	-	Contact
YRTA-HEWSH-1U	Mass Production	Renesas	\$2382.35	HEW IDE & C Compiler SH 1 User + HW Key	-	-	Contact
HS0005KCU02H	Mass Production	Renesas	\$1905.88	On-Chip Debug Emulator E10A- USB w/ Trace	-	-	Contact
HS0005KCU01H	Mass Production	Renesas	\$1152.94	On-Chip Debug Emulator E10A- USB	4	ARROW ELECTRONICS INC.	Buy

Recommended Product

R8A77800BDBGV
-
Mass Production
-
-

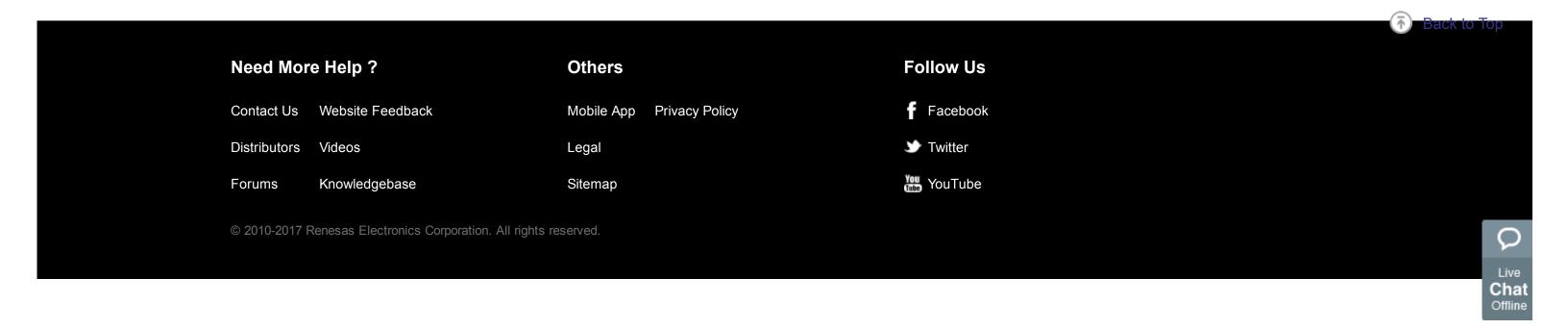
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 SPC5604EEF2MLH
 MB91F528USCPMC-GSE2
 MB91F248PFV-GE1
 MB91F594BPMC-GSE1
 MB91243PFV-GS-136E1

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 PIC32MM2064DAB28-I/ML

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