



Search by keyword or Part Name


[Products](#)
[Applications](#)
[Development Tools](#)
[Support/Design](#)
[Buy/Sample](#)
[About Renesas](#)
[Special Offers](#)
[Home](#)
[Products](#)
[Microcontrollers \(MCU\) and Microprocessors \(MPU\)](#)
[RZ Family](#)
[RZ/A](#)
[RZ/A1L](#)

# R7S721020VCBG



Subscribe: Share:


[Provide feedback](#)  
[Print this page](#)

Products

[Overview](#)
[Documentation](#)

 Microcontrollers (MCU) and  
 Microprocessors (MPU)

[RZ Family](#)
[RZ/A](#)
[RZ/A1L](#)
**R7S721020VCBG**
[Product Spec](#)
[Order Information](#)
[Contact](#)
[Package](#)

## Product Spec

[Basic Information](#)
[Memory](#)
[CPU \(Bit, Clock, DMA, External Bus etc\)](#)
[Timers](#)
[Analog](#)
[Interfaces](#)
[Display Functions](#)
[Operating Conditions](#)
[Remarks](#)

### Basic Information

Product Status	Mass Production
Family	<a href="#">RZ</a>
Series	<a href="#">RZ/A</a>
Group	<a href="#">RZ/A1L</a>

### Memory

Program memory	0 KB ROMless
RAM	3072 KB
Cache Memory Remark	Primary cache:64KB(instruction32KB/data32KB), TLB128 Secondary cache:128KB(CoreLink™Level2 Cache Controller L2C-310)

### CPU (Bit, Clock, DMA, External Bus etc)

CPU	Cortex-A9 (32-bit)
Max. Frequency	400 MHz
Sub-Clock (32.768 kHz)	YES
PLL	YES
Real-Time Clock (RTC)	YES
Power-On Reset	YES
Floating Point Unit	YES
DMA Remarks	DMAC x 16 ch
External Address/Data Bus	YES
External Interrupt Pins	109
I/O Ports	100

#### Timers

16-bit Timers	5 ch
32-bit Timers	2 ch
Watchdog Timers	1 ch

#### Analog

A/D Converters	12-bit x 8 ch
----------------	---------------

#### Interfaces

CAN	2 ch
Ethernet	YES
USB Ports	2
USB Host	YES
USB Peripheral	YES
USB High-Speed Support	YES
USB Remarks	Low-speed Support (Host only)

CSIs	12 ch
SPIs	3 ch
UARTs	5 ch
I2Cs	4 ch
Serial Interface Remarks	SCIF (CSI:5ch/UART:5ch), SCI(CSI:2ch), RSPI (SPI:2ch), SPI multi (SPI:1ch), SSI (CSI:4ch), SPDIF (CSI:1ch)

#### Display Functions

High-resolution display controller	VDC5: XGA (1024 x 768)
------------------------------------	------------------------

#### Operating Conditions



Operating Voltage	3.0 to 3.6 V
Power Supply	VCC = 1.10 to 1.26 V, PVCC = 3.0 to 3.6 V, PLLVCC = LVDSPLLVCC = 1.10 to 1.26 V, AVCC = 3.0 to 3.6 V, USBVCC = USBUVCC = USBDVCC = 1.10 to 1.26 V, USBAPVCC = 3.0 to 3.6 V, VDAVCC = LVDSAPVCC = 3.0 to 3.6 V, USBDPVCC = 3.0 to 3.6 V, VSS = AVSS = 0 V
Operating Temperature	-40 to 85 °C (Ambient Temperature)

#### Remarks

Automotive, General Purpose, LCD Control, Connectivity

[Back To Top](#)

## Order Information

Orderable Part No.	Order	Date of PLP Termination	Production Status 	EU RoHS	RoHS-pdf (China-RoHS)
R7S721020VCBG#AC1	Contact	 Mar. 2030	Mass Production	Compliant	<a href="#">English</a>



: Product participating in the Product Longevity Program. [More information on the Product Longevity Program](#)

[Back To Top](#)

## Package

Package	
Pins	176
Pin pitch	0.5 mm
Package Type	LFBGA
Body Size	8x8 mm <sup>2</sup>
Package drawing	<a href="#">plbg0176ka_a</a>
Mount pad drawing	<a href="#">fig0013e</a>
Mounting height	1.4 mm
Mass	0.14 g
Renesas code	PLBG0176KA-A
JEITA code	P-LFBGA176-8x8-0.50

[Back To Top](#)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [8-bit Microcontrollers - MCU category](#):*

*Click to view products by [Renesas manufacturer](#):*

Other Similar products are found below :

[CY8C20524-12PVXIT](#) [CY8C28433-24PVXIT](#) [MB95F012KPFT-G-SNE2](#) [MB95F013KPMC-G-SNE2](#) [MB95F263KPF-G-SNE2](#)  
[MB95F264KPFT-G-SNE2](#) [MB95F398KPMC-G-SNE2](#) [MB95F478KPMC2-G-SNE2](#) [MB95F562KPF-G-SNE2](#) [MB95F564KPF-G-SNE2](#)  
[MB95F634KPMC-G-SNE2](#) [MB95F636KWQN-G-SNE1](#) [MB95F696KPMC-G-SNE2](#) [MB95F698KPMC1-G-SNE2](#) [MB95F698KPMC2-G-SNE2](#) [MB95F698KPMC-G-SNE2](#) [MB95F818KPMC1-G-SNE2](#) [MC908JK1ECDWER](#) [MC9S08PA32AVLD](#) [MC9S08PT60AVLD](#)  
[R5F1076CMSPV0](#) [R5F5631ECDFBV0](#) [C8051F389-B-GQ](#) [C8051F392-A-GMR](#) [ISD-ES1600\\_USB\\_PROG](#) [901015X](#) [SC705C8AE0VFBE](#)  
[STM8TL53G4U6](#) [PIC16F877-04/P-B](#) [R5F10Y17ASP#30](#) [CY8C3MFIDOCK-125](#) [403708R](#) [MB95F354EPF-G-SNE2](#) [MB95F564KPFT-G-SNE2](#) [MB95F564KWQN-G-SNE1](#) [MB95F636KP-G-SH-SNE2](#) [MB95F636KPMC-G-SNE2](#) [MB95F694KPMC-G-SNE2](#) [MB95F778JPMC1-G-SNE2](#) [MB95F818KPMC-G-SNE2](#) [MC908QY8CDWER](#) [MC9S08PT16AVLD](#) [MC9S08PT32AVLH](#) [MC9S08PT60AVLC](#)  
[MC9S08PT60AVLH](#) [C8051F500-IQR](#) [LC87F0G08AUJA-AH](#) [CP8361BT](#) [STM8S207C6T3](#) [CG8421AF](#)