GR-peach Specification Rev.F



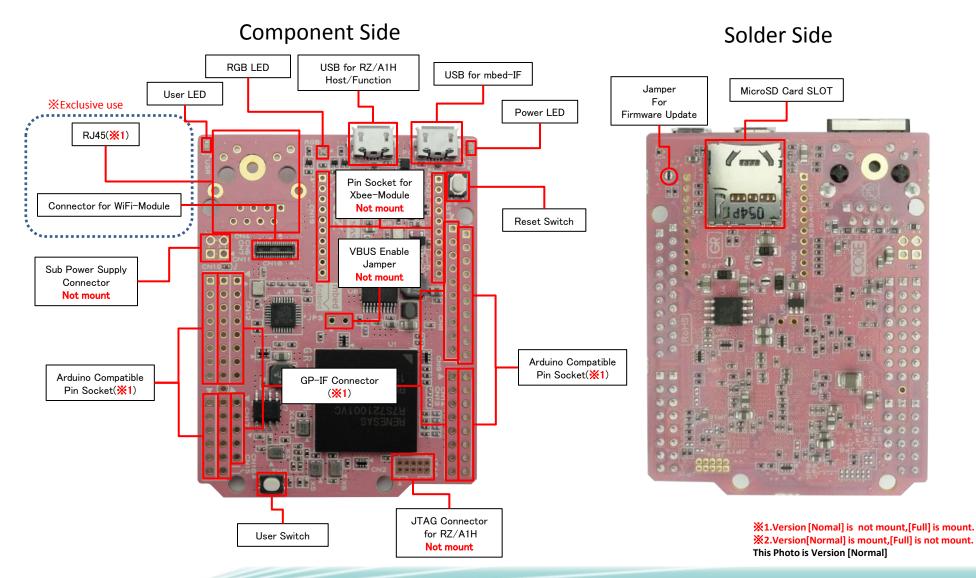
Parts	Manufacture	Model Number	Note
MPU	Renesas Electronics	R7S721001VLBG	Cortex-A9 RZ/A1H BGA 324pin RAM10MB Max:400MHz
FLASH ROM	Macronix	MX25L6435EM2I-10G	8MByte SOP 8pin (SPI Multi I/O)
External Memory	ALPS	SCHA4B0400	MicroSD Card SLOT (SPI)
Communication I/F Micro USB	JST	UB-MC5BR3-SD204-4S	RZ/A1H side MicroUSB Connector(HOST/FUNCTION)
			Mbed-IF side Debug/Programming MicroUSB Connector
Ethernet	MICROCHIP	LAN8710A	10/100BASE-TX -RJ45 Jack- (※1)(※2)
Wireless I/F 1	HIROSE	DF40C-30DP-0.4V(51)	Wi-Fi Module Connector For ROHM BP3595(Exclusive I/F -USB / UART-) (※1)
Wireless I/F 2	Hirosugi-keiki	FSS-21043-10 x2	For Xbee Module Connector (Not mount)
Expantion Connector	Hirosugi-keiki	FSS-41085-05 x1 FSS-41085-06 x2 FSS-41085-08 x5 FSS-41085-10 x2	Arduino Compatible Pin Socket(※2) 6pin x1 / 8pin x2 / 10pin x1
			Pin Socket for GR-Shield (※2) 5pin x1 / 6pin x1 / 8pin x3 / 10pin x1
Debug Connector	Hirosugi-keiki	PSS-720303-05	10pin JTAG Connector(CoreSight10) (Not mount)
Switch	ALPS	SKRPABE010	System Reset Switch x1
			User Switch x1
LED	ROHM	SML-D12P8W	Power LED -Green-(Uncontrollable)
		SML-D12U8W	User LED -Red- x1
		SMLP34RGB2W	Full Color LED x1
Power Supply	VBUS 1	DC 5V MicroUSB Connector(Connected mbed-IF)	
	VBUS 2	DC 5V MicroUSB Connector(Connected RZ/A1H)	
	Vin	DC 5.5~16V(Arduino Compatible Pin -Vin- / Auxiliary Power Connector)	
Board Size	53.34(W) x 67.58(D) (mm)		

^{※1.}Exclusive use Ethernet, Wireless I/F 1

^{※2.}Version [Nomal] is not mount,[Full] is mount.

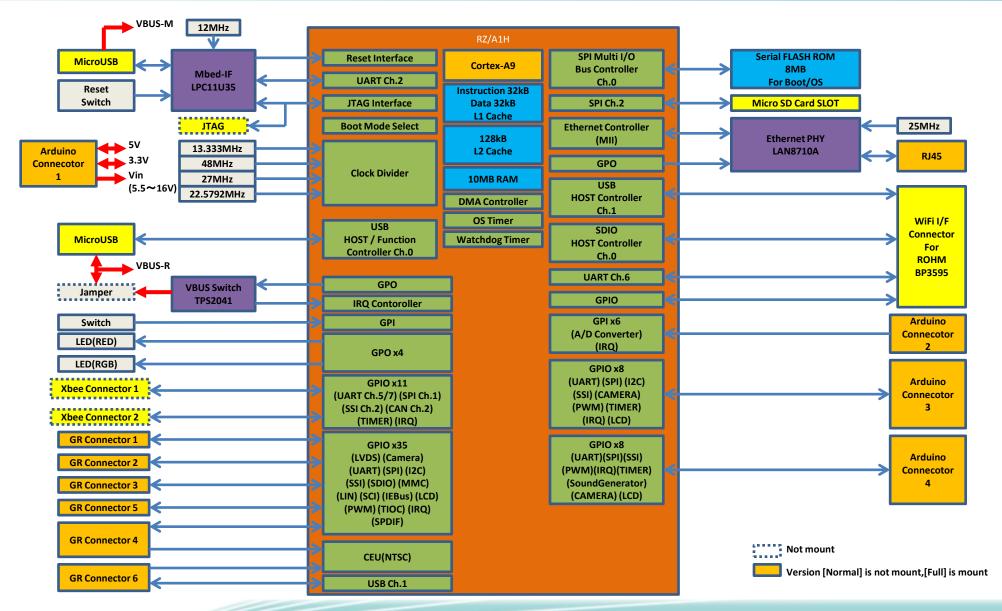
Interface





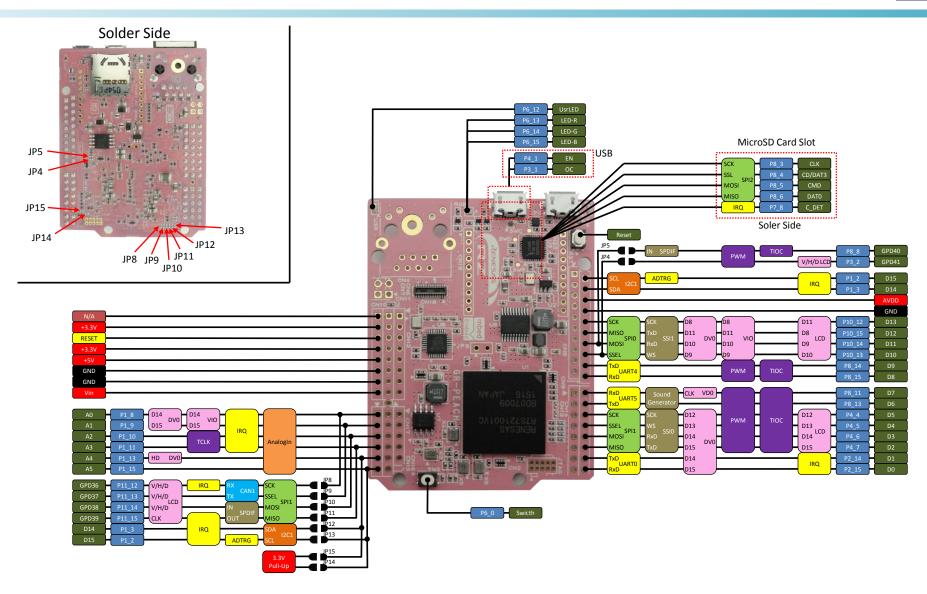
Block Diagram





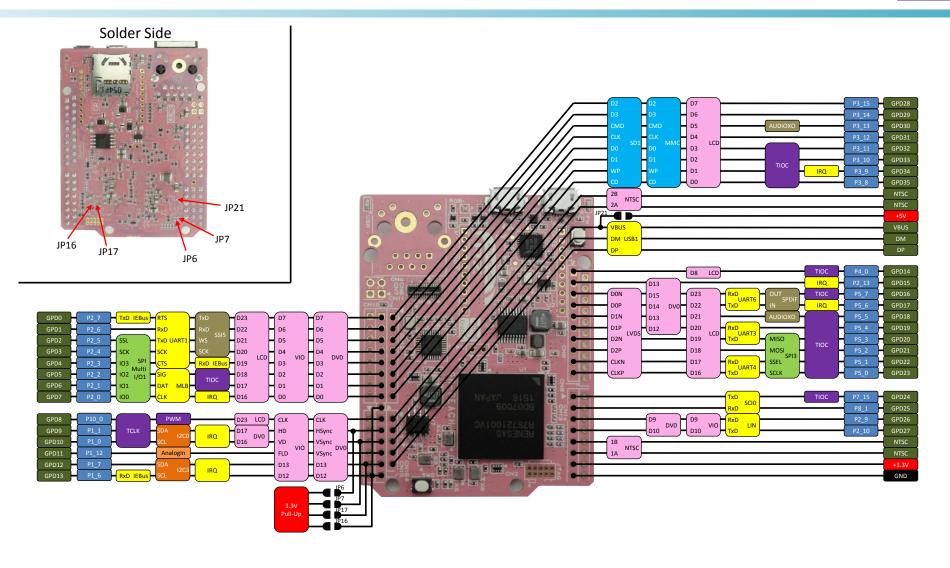
Pinassign(Arduino Compatible Pinsocket)





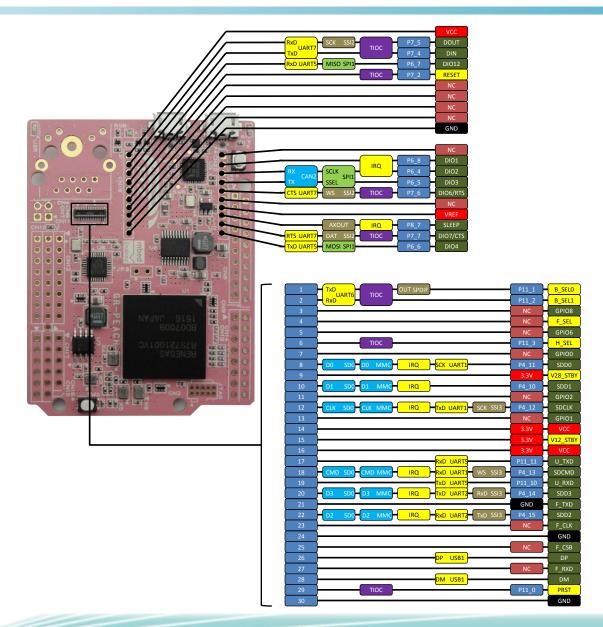
Pinassign(GR-peach Expantion I/F)





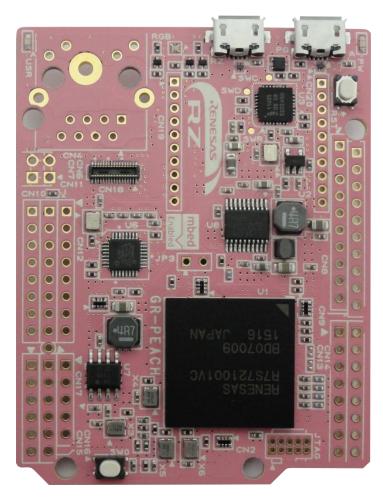
Pinassign(Wireless I/F Connector)



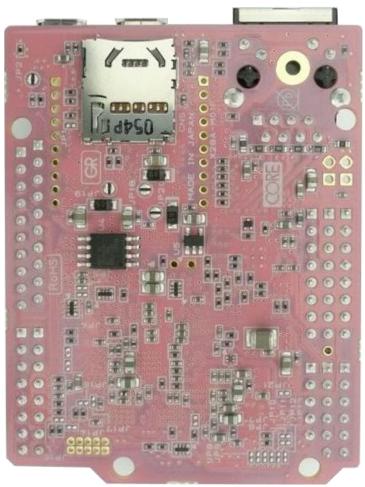


Appearance





Component Side

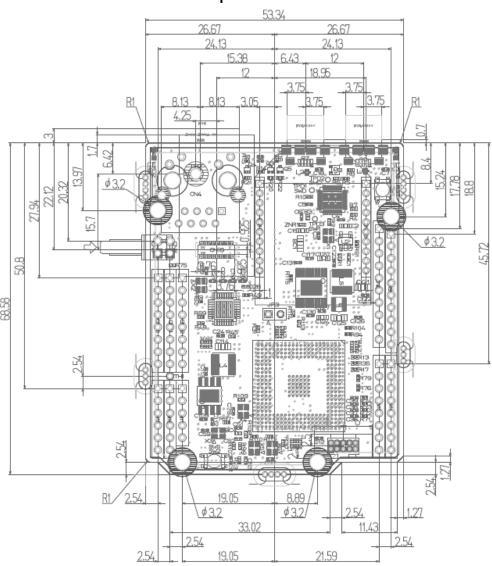


Solder Side

Mechanical Footprint



Component Side



Solder Side(top view)

