

Separate Sheet

<u>Product Specifications of the expanded RX65N/RX651 MCU lineup (maximum group specifications)</u>

		Existing Devices Code Flash 1.0 MB or less		New PR Devices Code Flash 1.5 MB or more				
	ITEM	RX65N	RX651	RX65N	RX651			
	CPU		RXv2					
Fr	Frequency							
	Vcc		2.7 V - 3.6 V					
	Code Flash	512 KB, 768 KB, 1 MB 1.5 MB, 2.0 MB			3			
	Dualbank function	- Yes						
Memory	BGO function	- Yes		Yes				
	Data Flash	- 32 KB						
	SRAM	256 KB 640 KB (256 KB +			B + 384 KB)			
	DMA		DMAC x 8 channels, Data Transfer Controller (DTC), EXDMAC x 2 channels					
Ext	External Bus		8/16-bit separate/multiplex, SDRAM		8/16/32-bit separate/multiplex, SDRAM			
Timer	General Purpose Timer	Multi-Function Timer Unit (MTU3): 16-bit x channels +3 2-bit x 1 channel Timer Pulse Unit (TPU): 16-bit x 6 channels Timer (TMR): 8-bit x 4 channels Compare Match Timer: 16-bit(CMT) x 4 channels 32-bit(CMTW) x 2 channels						
	RTC with Battery Backup Function	1 channel						
	Independent	1 channel / 1 channel						

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	Ser Commun Interf	ications							
Communication Interface	Ser Commun	ial ications	11 channels / 2 channels						
	I ² C Bus I		2 channels 3 channels						
	Serial Pe Interf	-	3 channels						
	Quad S Peripheral		1 channel						
	Ethernet,	EDMAC	1 channel	-	1 chan	nel	-		
	USB2.0 Ft	ull speed	1 channel (host/function/OTG)						
	CAN		2 channels						
	SD Host Interface/ SD Slave Interface		1 channel / 1 channel						
	MMC Host Interface		1 channel						
Analog	A/D Converters		12-bit x 8 channels (with 3ch S&H) + 12-bit x 21 channels						
	D/A Con	verters	2-bit x 2 chanr	2-bit x 2 channels					
Security	AES		Yes		Yes Secure	(Built e IP)	in	Trusted	
	True Random Number Generator (TRNG)		Yes		Yes Secure	(Built P)	in	Trusted	
	Trusted S	ecure IP	-		Yes				
HMI (Human Machine	CMOS Camera Interface	PDC (Parallel Data Capture)	1 channel						

Interface)	Graphic	GLDC (Graphic LCD	-	1 channel	
		DRW2D			
		(2D drawing engine)	-	Yes	
Other			CRC32, Data Operation Circuit, Port Output Enable 3, Event Link Controller, Temperature Sensor		
Package			100 LFQFP (0.5mm pitch, 14mm x 14mm) 144 LFQFP (0.5mm pitch, 20mm x 20mm) 100 TFLGA (0.65mm pitch, 7mm x 7mm) 145 TFLGA (0.5mm pitch, 7mm x 7mm)		
			-	176 LFQFP (0.5mm pitch, 24mm x 24mm) 176 LFBGA (0.8mm pitch, 13mm x 13mm)	
				177 TFLGA (0.5 mm pitch, 8mm x 8mm)	

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