






# NFC Tag ICs

## Product Leaflet

**Panasonic**

Parts No	MN63Y 1210A	MN63Y 1208	MN63Y 1212	MN63Y 1213	MN63Y 1214
					
Operation Voltage	1.8V to 3.6V or 4.5V to 5.5V	1.7V to 3.6V	—	1.7V to 3.6V	
Operating Temperature	-20 to 85°C				
Storage Temperature	-40 to 85°C				
Non-volatile Memory	Total Storage: 4K bit, User Data Area (432 Byte)				Total Storage: 8K bit, User Data Area (960 Byte)
	Endurance: 100.000.000 times / Data Retention: 10 years				
RF Interface (Automatic protocol detection)	Type-A <sup>*1</sup>				•
	Type-B <sup>*2</sup>	•	•	•	•
	Type-F <sup>*3</sup>	•	•	•	•
NFC Forum Tag	Type3	Type4B, Type3			Type4A, Type4B, Type3
Power by Field	Available				
Security Function	N/A	AES128 Encryption			Password Protection
Serial Interface	UART (38.4kbps), Sync serial (1Mbps)	I2C (to 100kbps)	N/A ( only IRQ )	I2C (to 100kbps)	I2C (to 400kbps)
Package Size	SSOP 16pin 5.0 x 6.4 x 1.3 mm	QFN 16pin 3.2 x 4.2 x 0.77 mm	SON (8pin) 2 x 2 x 0.45 mm		

\*1: ISO/IEC14443 TypeA [106kbps]

\*2: ISO/IEC14443 TypeB [106kbps, 212kbps, 424kbps (MN63Y1214)]

\*3: JIS X 6319-4 FeliCa [212kbps, 424kbps]

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rev. 201606



# NFC Tag Modules

## Product Leaflet

**Panasonic**

Parts No	MN63Y 3212N1 <sup>*1</sup>	MN63Y 3212N4 <sup>*1</sup>	MN63Y 3212N5 <sup>*1</sup>	MN63Y 3213N1 <sup>*1</sup>	MN63Y 3214N1 <sup>*1</sup>
					
Operation Voltage	— *ON using IRQ, connect VSS	—	—	1.7V to 3.6V	1.7V to 3.6V
Operating Temperature	-20 to 85°C	-20 to 80°C		-20 to 85°C	
Storage Temperature	-40 to 85°C	-25 to 80°C		-40 to 85°C	
Non-volatile Memory	Total Storage: 4K bit, User Data Area (432 Byte)				Total Storage: 8K bit, User Data Area (960 Byte)
	Endurance: 100.000.000 times / Data Retention: 10 years				
RF Interface (Automatic protocol detection)	Type-A <sup>*2</sup>				•
	Type-B <sup>*3</sup>	•	•	•	•
	Type-F <sup>*4</sup>	•	•	•	•
NFC Forum Tag	Type4B, Type3				Type4A, Type4B, Type3
Power by Field	Available				
Security Function	N/A	AES128 Encryption			Password Protection
Serial Interface	N/A (only IRQ)	N/A		I2C (to 100kbps)	I2C (to 400kbps)
Package Size	25 x 11.5 x 0.85 mm	Ø30 x 3 mm IP68 PC molded	30 x 15 x 2.7 mm IP68 PC molded	9 x 30 mm	40 x 30 mm

\*1: The specifications are subject to change without notice since it is under development

\*2: ISO/IEC14443 TypeA [106kbps]

\*3: ISO/IEC14443 TypeB [106kbps, 212kbps, 424kbps (MN63Y3214N1)]

\*4: JIS X 6319-4 FeliCa [212kbps, 424kbps]

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Operating Temperature	-20 to 85°C				
Storage Temperature	-40 to 85°C				
Non-volatile Memory	Total Storage: 4K bit, User Data Area (432 Byte)				Total Storage: 8K bit, User Data Area (960 Byte)
	Endurance: 100.000.000 times / Data Retention: 10 years				
RF Interface (Automatic protocol detection)	Type-A <sup>*1</sup>				•
	Type-B <sup>*2</sup>	•	•	•	•
	Type-F <sup>*3</sup>	•	•	•	•
NFC Forum Tag	Type3	Type4B, Type3			Type4A, Type4B, Type3
Power by Field	Available				
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Serial Interface	UART (38.4kbps), Sync serial (1Mbps)	I2C (to 100kbps)	N/A ( only IRQ )	I2C (to 100kbps)	I2C (to 400kbps)
Package Size	SSOP 16pin 5.0 x 6.4 x 1.3 mm	QFN 16pin 3.2 x 4.2 x 0.77 mm	SON (8pin) 2 x 2 x 0.45 mm		
Product Sample					
<div>*1: ISO/IEC14443 TypeA [106kbps] *2: ISO/IEC14443 TypeB [106kbps, 212kbps, 424kbps (MN63Y1214)] *3: JIS X 6319-4 FeliCa [212kbps, 424kbps]</div>					

\*1: ISO/IEC14443 TypeA [106kbps]

\*2: ISO/IEC14443 TypeB [106kbps, 212kbps,  
424kbps (MN63Y1214)]

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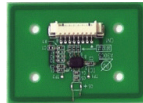




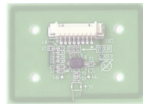
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# NFC Tag Modules

## Product Leaflet

**Panasonic**

Parts No	MN63Y 3212N1 <sup>*1</sup>	MN63Y 3212N4 <sup>*1</sup>	MN63Y 3212N5 <sup>*1</sup>	MN63Y 3213N1 <sup>*1</sup>	MN63Y 3214N1 <sup>*1</sup>
					
Operation Voltage	— *ON using IRQ, connect VSS	—	—	1.7V to 3.6V	1.7V to 3.6V
Operating Temperature	-20 to 85°C	-20 to 80°C		-20 to 85°C	
Storage Temperature	-40 to 85°C	-25 to 80°C		-40 to 85°C	
Non-volatile Memory	Total Storage: 4K bit, User Data Area (432 Byte)				Total Storage: 8K bit, User Data Area (960 Byte)
	Endurance: 100.000.000 times / Data Retention: 10 years				
RF Interface (Automatic protocol detection)	Type-A <sup>*2</sup>				•
	Type-B <sup>*3</sup>	•	•	•	•
	Type-F <sup>*4</sup>	•	•	•	•
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