

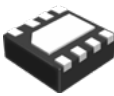
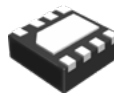
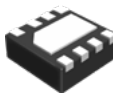


# NFC Tag ICs

## Product Leaflet

**Panasonic**

Parts No	MN63Y 1210A	MN63Y 1208	MN63Y 1212	MN63Y 1213	MN63Y 1214
					
<b>Operation Voltage</b>	1.8V to 3.6V or 4.5V to 5.5V	1.7V to 3.6V	–	1.7V to 3.6V	
<b>Operating Temperature</b>	-20 to 85°C				
<b>Storage Temperature</b>	-40 to 85°C				
<b>Non-volatile Memory</b>	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				
<b>RF Interface (Automatic protocol detection)</b>	<b>Type-A</b> *1				•
	<b>Type-B</b> *2	•	•	•	•
	<b>Type-F</b> *3	•	•	•	•
<b>NFC Forum Tag</b>	Type3	Type4B, Type3			Type4A, Type4B, Type3
<b>Power by Field</b>	Available				
<b>Security Function</b>	N/A	AES128 Encryption			Password Protection
<b>Serial Interface</b>	UART (38.4kbps), Sync serial (1Mbps)	I2C (to 100kbps)	N/A ( only IRQ )	I2C (to 100kbps)	I2C (to 400kbps)
<b>Package Size</b>	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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For complete and current Panasonic Semiconductors product information

# NFC Tag Modules

## Product Leaflet

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>
					
<b>Operation Voltage</b>	– *ON using IRQ, connect VSS	–	–	1.7V to 3.6V	1.7V to 3.6V
<b>Operating Temperature</b>	-20 to 85°C	-20 to 80°C		-20 to 85°C	
<b>Storage Temperature</b>	-40 to 85°C	-25 to 80°C		-40 to 85°C	
<b>Non-volatile Memory</b>	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				
<b>RF Interface (Automatic protocol detection)</b>	<b>Type-A</b> <sup>*2</sup>				•
	<b>Type-B</b> <sup>*3</sup>	•	•	•	•
	<b>Type-F</b> <sup>*4</sup>	•	•	•	•
<b>NFC Forum Tag</b>	Type4B, Type3				Type4A, Type4B, Type3
<b>Power by Field</b>	Available				
<b>Security Function</b>	N/A	AES128 Encryption			Password Protection
<b>Serial Interface</b>	N/A (only IRQ)	N/A		I2C (to 100kbps)	I2C (to 400kbps)
<b>Package Size</b>	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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