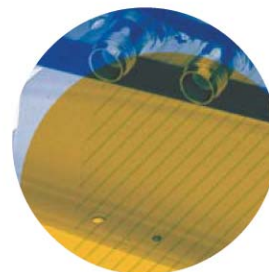
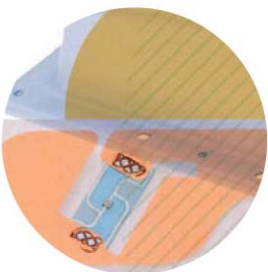
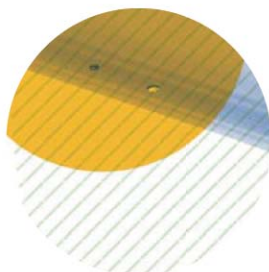
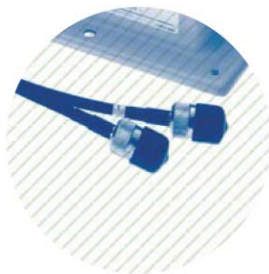
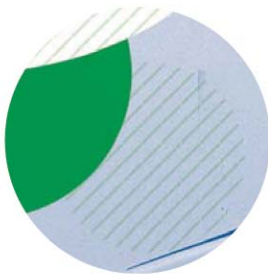
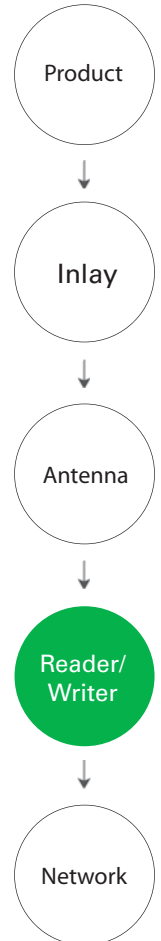


# V740 Series RFID System- Specifications

The V740 Series RFID system is ideally suited for materials handling, logistics, retail, and supply chain management on a global scale. Trust OMRON a global leader with over 20 years experience to help your company save time and money by improving forecasting, distribution and production.





### EPCglobal Compliance

Compliance with the EPCglobal Protocols Class 0 & Class1, and also upgradeable to Class1 G2 by changing firmware.

### High Speed Data Processing

High speed data processing by Intel network processor and PC-like function by Linux OS enabling to run application software on the product.

### Features

The reader/writer is well suited for system integrators and corporate developers who require standard-based, scaleable solutions supported by a robust development environment using off-the-shelf tools.

### V740 Inlay General Specifications

	V740-BC50C02-US	V740-BC50C04-US (planned)
<b>Operating Frequencies</b>	902 - 928 MHz	902 - 928 MHz
<b>Supported Protocols</b>		
EPC Class 0	Available	Available
EPC Class 1	Available	Available
EPC C1G2	Upgradeable	Upgradeable
<b>Number of Antenna Ports</b>	2	4
<b>Interface Port</b>	Ethernet	Ethernet
<b>Supplied Voltage by AC Adapter</b>	24VDC, 2.0A	24VDC, 2.0A
<b>Power Supply</b>	100 - 240VAC, 50/60Hz	00 - 240VAC, 50/60Hz
<b>Operating Temperature</b>	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
<b>Storage Temperature</b>	-20°C to 65°C (-4°F to 149°F)	20°C to 65°C (-4°F to 149°F)
<b>Operating Humidity</b>	25% to 85% RH (non-condensing)	25% to 85% RH (non-condensing)
<b>Protective Rating</b>	IP40	IP40
<b>Regulatory Compliance</b>	FCC Part 15, CSA	FCC Part 15, CSA
<b>Dimensions</b>	306.0 x 269.1 x 41.1mm (12.05" x 10.59" x 1.62")	306.0 x 269.1 x 41.1mm (12.05" x 10.59" x 1.62")
<b>Weight</b>	1.5kg (3.4lbs)	1.5kg (3.4lbs)

This product is only sold in the U.S.A. at present.



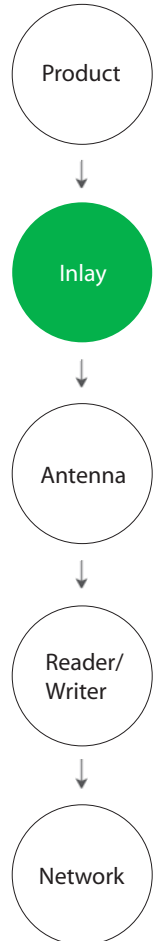
V740-HS02C

**Compact size**

Featuring Dual-element antenna and compact size.

**General Specifications**

Item	Specifications
Operating Frequencies	902 - 928 MHz
Impedance	50 ohm
Operating Temperature	-10°C to 55°C (14°F to 131°F)
Storage Temperature	-20°C to 65°C (-4°F to 149°F)
Operating Humidity	25% to 85% RH (non-condensing)
Protective Rating	IP50
Dimensions	496 x 221 x 69 mm ( 19.5" x 8.7" x 2.7")
Weight	1.5kg (3.4 lbs)



### High Quality Product

Patented “Ultrasonic Bonding” technology is applied for the chip mounting. Omron’s inlay is strong against bending stress and has a lower deficit rate.

### Inlay Class

EPCglobal compliant.

EPCglobal protocol Class 1 (96bits).

C1G2 (Generation 2) will be commercialized when the C1G2 chip is released.

### Thinness and Flexibility

Thickness of antenna is 9µm with tension of 7.5N at ø20mm iron stick. These characteristics make inlay conversion easy.

### V740 Inlay General Specifications

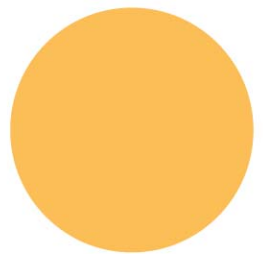
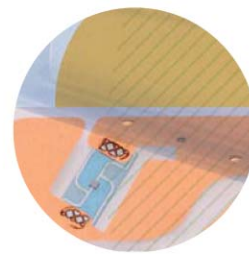
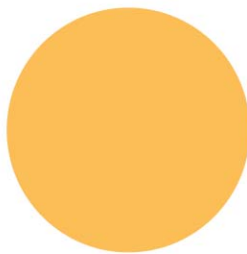
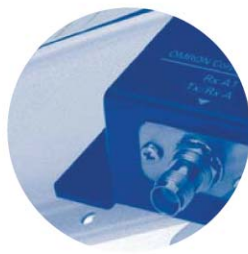
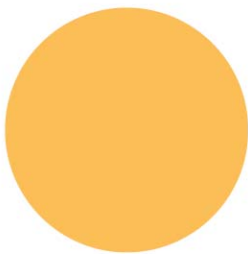
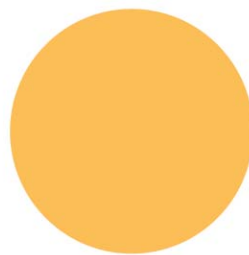
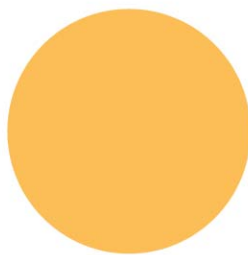
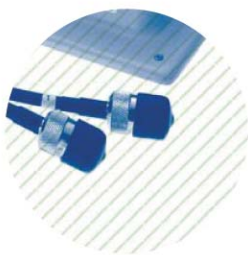
<b>Size</b>	16 mm x 94 mm (0.63” x 3.70”)
<b>Operating Frequency</b>	915 MHz
<b>Protocol</b>	EPCglobal Protocol Class 1 (96 bits)
<b>Memory Size</b>	128 bits EEPROM (User memory area: 96 bits)
<b>Data Retention</b>	Time 10 years
<b>Data Write Endurance</b>	10,000 cycles
<b>Operating Temperature</b>	-20°C to 55°C (-4°F to 131°F) (no icing, no condensation)
<b>Storage Temperature</b>	-20°C to 55°C (-4°F to 131°F) (no icing, no condensation)
<b>Storage Humidity</b>	60% RH max.
<b>Heat Resistance</b>	No communication error after 250 hours at 85°C (185°F)
<b>Cold Resistance</b>	No communication error after 250 hours at -30°C (-22°F)
<b>Thermal Shock Resistance</b>	No communication error after 100 cycles between 85°C (185°F) and -30°C (22°F) holding 30 minutes at each temperature.
<b>Vibration Resistance</b>	Destruction: 10 to 2,000 Hz, 1.5 mm (0.06 in) double amplitude at 150 m/s <sup>2</sup> (492.1 ft/s <sup>2</sup> ) in X, Y, and Z directions 10 times each for 11 minutes
<b>Shock Resistance</b>	Destruction: 500 m/s <sup>2</sup> (1640 ft/s <sup>2</sup> ) three times each in X, Y, and Z directions

This product is only sold in the U.S.A. at present.

For further information on OMRON's RFID systems, and the V740 Series visit our website at [www.rfid.omron.com](http://www.rfid.omron.com).

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