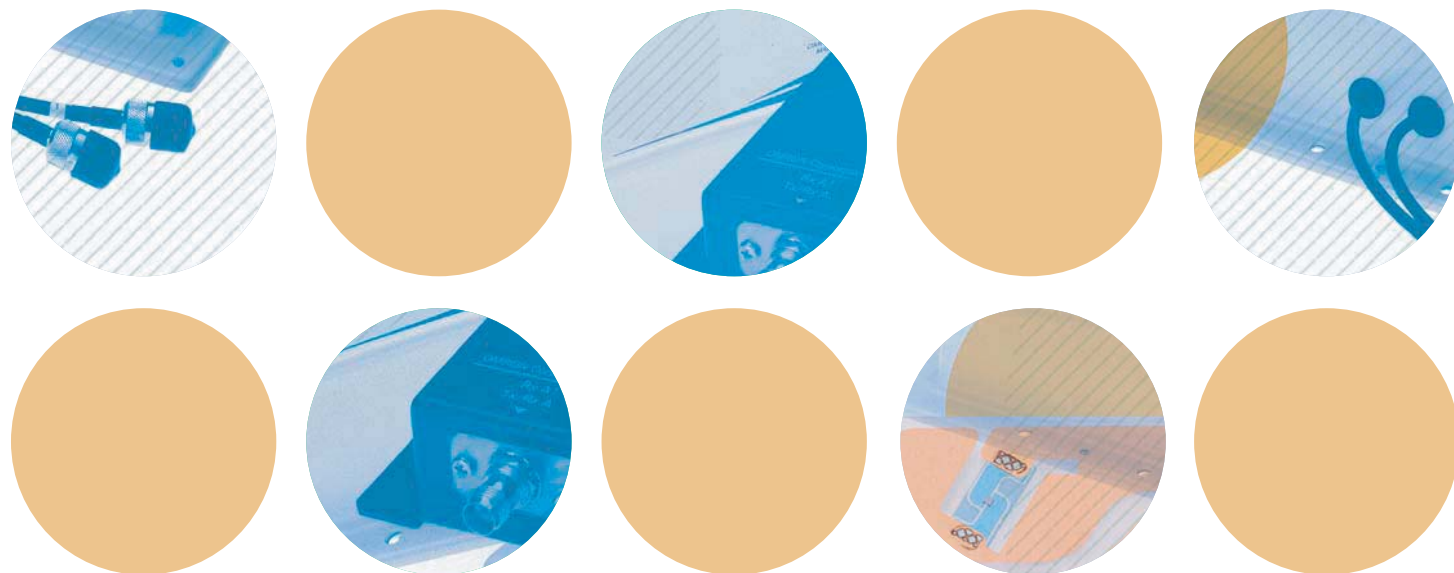


For further information on OMRON's RFID systems, and the V740 Series visit our website at www.omronrfid.com

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 Cat. No. S944-E1-02



V740 Series RFID System

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.



The Company

OMRON Corporation is a \$5.5 billion global leader in sensing and control components with over 26,000 employees spread out across 35 countries.

OMRON began developing RFID systems in 1985. That's over 20 years of experience in system development, implementation and support.

A member of EPC global, OMRON participates in local and global events, research, and technology development.



What Is RFID?

RFID stands for radio frequency identification. In contrast to bar codes, radio waves are used to send information, a signal or a unique ID of a product to the antenna which is then read by the reader. This information is displayed on a host, such as your computer. With RFID you can find, handle and manage all of your goods more effectively without having to see them.

Benefits

- Make your supply chain more effective
- Maximize inventory management
- Increase employee efficiency
- Track goods more quickly
- No line-of-sight required

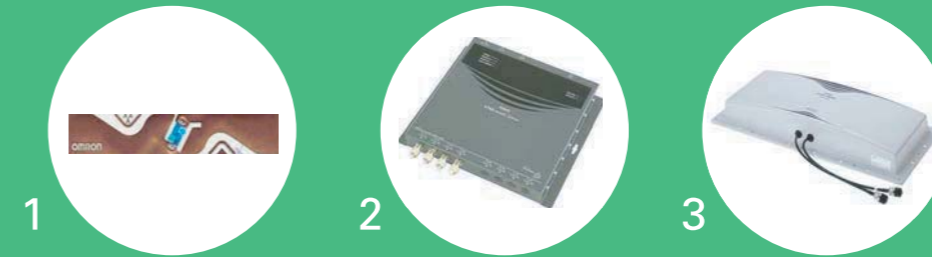
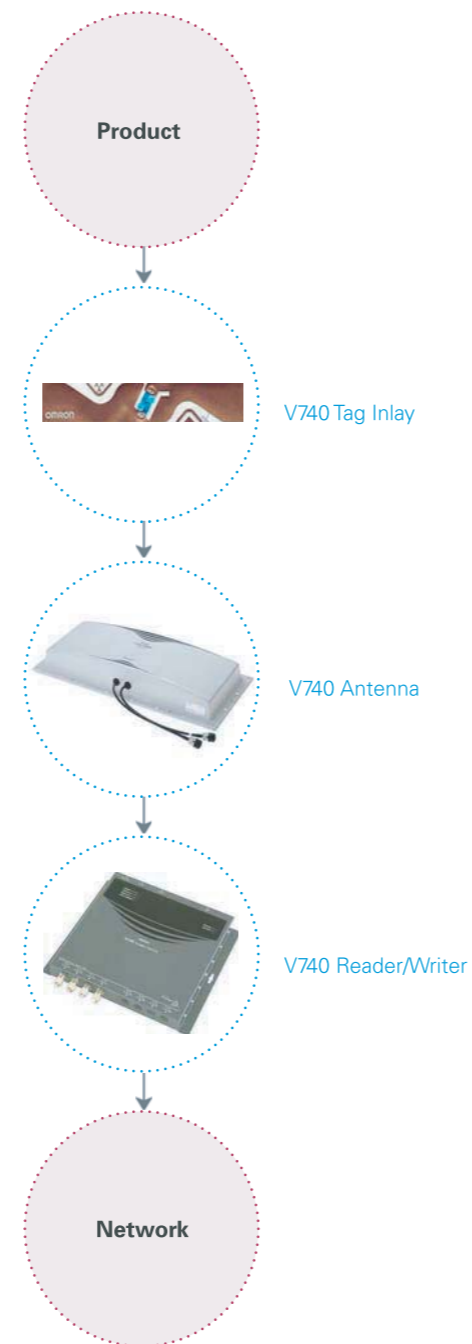
Full RFID Systems

OMRON offers a full line of products all backed by world-class support. Our systems include: tag inlays, antennas, reader/writers, software, and other accessories. We'll work with you to customize a solution that meets your goals and fits your budget.

Systems are easy to use, and can be upgraded as required. Readers and tags/inlays are available in several frequencies including: 125 KHz, 530 KHz, 13.56 MHz, 915 MHz, 2.45 GHz.

Application Examples

- Inventory management
- Rental item management
- Merchandise control systems
- Supply chain management
- Access control systems
- Airline luggage management
- Courier service management
- Manufacturing process control and more



1) INLAY General Specifications

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

2) READER WRITER General Specifications

Item	V740-BA50C02-US	V740-BA50C04-US (Planned)
Operating Frequencies	902 – 928 MHz	902 – 928 MHz
Supported Protocols	EPC Class 0 EPC Class 1 EPC C1G2	N/A Available Upgradable
Number of Antenna Ports	2	4
Interface Port	Ethernet	Ethernet
Supplied Voltage by AC Adapter	24VDC, 2.0A	24VDC, 2.0A
Power Supply	100 – 240VAC, 50/60Hz	100 – 240VAC, 50/60Hz
Operating Temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 65°C (-4°F to 149°F)	-20°C to 65°C (-4°F to 149°F)
Operating Humidity	25% to 85% RH (non-condensing)	25% to 85% RH (non-condensing)
Protective Rating	IP40	IP40
Regulatory Compliance	FCC Part 15, CSA	FCC Part 15, CSA
Dimension	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")
Weight	1.5kg (3.4 lbs)	1.5kg (3.4 lbs)

3) ANTENNA 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)