$R^3$2 (R cubed 2) Specifications and Data Sheet

egomexico
EXPERTOS EN RFID Y EPC

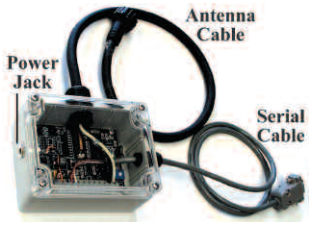
RF ID, INC.

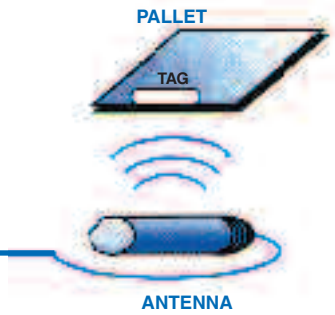
This 125 KHz product line is not interchangeable with our 148 KHz R^3 Solutions. This 2nd generation product is based on the same rugged proven technology as that of our R^3 (R cubed) family of RFID solutions with the following enhancements:

- ➢ Dozens of Tag styles
- ➢ Operates at ISO Standard 125 KHz frequency
- ➢ Readers: RS232/485, Profibus, Ethernet, TTL and Wiegand (DeviceNet, Modbus, Ethernet IP pending)
- ➢ Smaller Reader packages, OEM level PCB solutions
- ➢ Flexible 7 to 28 VDC power requirements

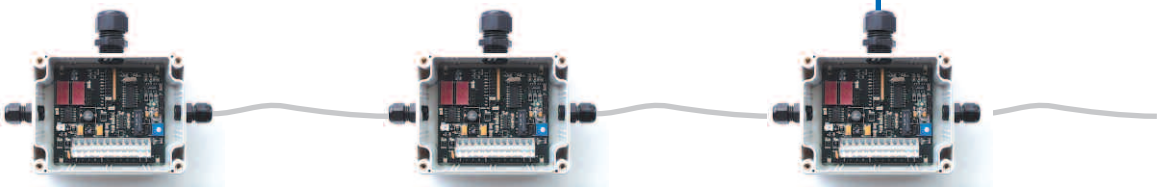
There are 5 architectures of Read Stations solutions discussed in this data sheet:

1. RS232 — Model 7000E series of Readers offers a one Reader per one serial port solution

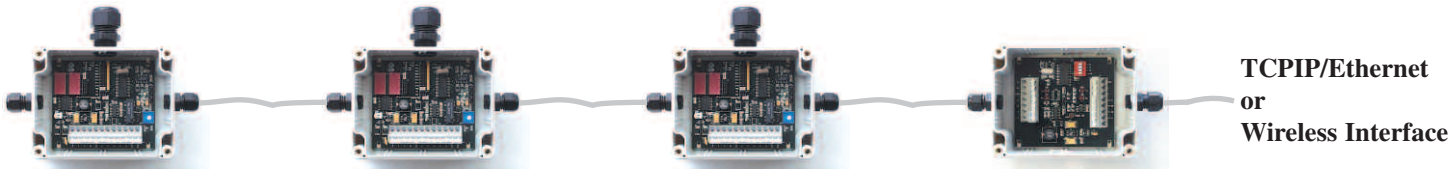




2. RS485 — Model 7050E series of Readers allows for multi-drop of 32 Readers to a single serial port



3. Interfaces – Model 7000E or 7050E series of Readers wired to Model 3035 Ethernet or Model 3000E RFDC Wireless Interface



4. Smart Antennas with industrial protocols — Profibus, DeviceNet, Modbus, Discrete I/O

5. Hand Helds, Specialty and OEM Reader Solutions

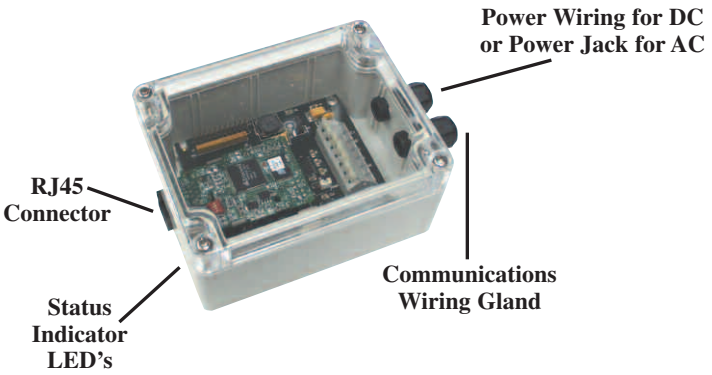
The R cubed products primarily serve applications of:

- Tote/Pallet/Carrier ID of Widgets thru Processes
- Wafer Identification thru Manufacturing
- Mold/Tool Identification
- Automated Guided Vehicles
- Paint Chambers/Bake Ovens, Appliances, Vehicles
- Gas Cylinder Identification
- Laundry Apparel Identification
- Customer Loyalty Programs
- Authentication/Verification
- Products or Pallets in ASRS Systems
- Employee ID, Access Control
- ID Prescriptions in Automated Pharmaceutical Systems
- Mining Conveyor Belt Identification
- Automated Airline Baggage Systems
- Stacker/Reclaimer Systems in Mining
- Identify/Track Rental Items

Certainly not limited to these applications, the $R^3$2 products excel at any industrial identification need where tough, 100% dependable systems are necessary. R cubed stands for Rapid, Robust and Reliable.

Model 3035E Ethernet Interface

Intended for use in conjunction with a Reader or network of Readers, the Model 3035E Ethernet Interface converts RS-232 (Model 7000E) or RS-485 (Model 7050E) communications to an Ethernet Platform. Using a true TCPIP protocol, this unit is very simple to setup through an HTML page and designed to be specifically interfaced with RFID, Inc.'s serial Readers.



Connectors:	Thumb pressure terminal strips on PCB Cable glands on Enclosure
Voltage:	+7 to +28 volts DC, optional AC supply
Current:	200 mA (max) 125 mA (typ)

Housing:	4.5″ x 3.5″ x 2.1875″ NEMA 4X with clear lid for quick troubleshooting Optional metal enclosure or opaque lid
Operating Temp:	-40 to +55 degrees C
Non-Operating Temp:	-55 to +85 degrees C

Model 3000E-WL-TR and 3000E-WL-BSR Wireless RFDC Interface Products

TR stands for Transmitter and Receiver, and is designed to be interfaced to any of our serial Readers or network of Readers. BSR stands for Base Station Receiver and is intended to be interfaced to a COM port on your controller/PC. Designed to operate with MAC addresses with a distance of one mile non-line of sight and four miles line of sight, this product can save substantial wiring costs. Since MAC technology is employed, it is theoretically possible for a single BSR to manage thousands of TR's.

Model 3000E-WL-TR (link to Readers)

Model 3000E-WL-BSR linked to PC via RS232

Connectors:	9 PIN RS232 Dsub Power pigtails or AC quick connector
Voltage:	+7 to +12 volts DC, optional AC supply
Current:	1100 mA (max) 30 mA (typ)

Housing:	ABS 3.25″ x 3.25″ x 1.25″, without ears
Address:	Via rotary switches on PCB
Operating Temp:	-40 to +55 degrees C
Non-Operating Temp:	-55 to +85 degrees C

Customer List

We are proud to disclose the following as satisfied users of our products.

USA:
Abbot Labs
Ace Hardware
Alcoa
Allen Bradley
Amana
American Bar Code
Ameripharm
Anheuser Busch
Anthem Prescription
Asyst Technologies
AT&T/Lucent
Atmel/Temic
Automated Tooling Systems
Avtron
BAE Automation
Baylor University
Boeing Corporation
Cal Poly State University
Cameron Barkley
Carlton Bates
Caterpillar
CDS/Procare
CEI Automation
Charbroil
Computers Unlimited
Copeland
Cutler Hammer (Puerto Rico)
Daimler Chrysler
Detroit Diesel
DT Industries
Eastman Kodak
Eckerd Drug (misspelled)
Eglin AFB
EI DuPont
Eskay
Esselte
Estee Lauder
ExcelleRx
Exxon Mobil
FamilyMeds.com
Federal Mogul
Ford Motor Company
Frigidaire
Fuel-All
General Electric
General Motors
Georgia Tech. University
H.E. Butt Grocery
Hewlett Packard
Honeywell
Howmet
Inland Steel
Jervis Webb
Kaiser Permanente
Key Handling Systems
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Knapp Automation
Krauss-Maffei
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Nippon Steel
Osh Kosh B'Gosh
Osram Sylvania
Pacifcare
Penn State University
Pepsi
Purdue University
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Proctor & Gamble
Reliance Rockwell
Rice Lake Weighing
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Rockwell Automation
Rx Direct
Sandia National Labs
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SI/Baker & SI/Handling Systems
Six Flags Amusement Parks
Square D Company
Siemens
Stanley Tools
Tel-Drug
Texas Instruments
The Denver Post
The Boston Globe
Thomson Consumer Electronics
Timken
TJ Maxx
Toyota
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TRW
U.S. Navy
Vail Resorts
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Volvo
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Walt Disney amusement parks
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Whirlpool
Wunderlich-Malec
Wyeth Labs

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Pacific Automation (dist, AUS)
Port Waratah
Pyrotec (dist, South Africa)
Queens Creek
Robe River Iron Associates
Sinclair Knight Merz
ThyssenKrupp Engineering
Voest-Alpine Materials Hndling
WMC Resources

CANADA:
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CIMS (distributor, BC)
City of Fort St. John
Dofasco
GLC Controls (distributor, BC)
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Kielhauer
Load A2B
LSZ Papertech
SJS (distributor, Toronto)
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WBM

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SCI Sanmina (Mexico)
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WM Wireless (dist, Columbia)

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