

CAPABILITIES

- Rain RFID
 - EPCglobal
 - UHF Class 1
 - Gen2
 - ISO18000-63
 - DRM supported
- UART communication (IRI protocol)
- Antenna Switching
- Triggered Events (4 I/O pins, individually defined as inputs or outputs, can be used as triggers or output controls by a user's application)
- RSSI Reporting
- Packet Phase Reporting
- Power Management
 - Low current *sleep*
 - 10 mA
 - Low *off current*
 - 0.0005 mA
 - Short time to *wakeup & read from sleep or off*

Presenting: **VITAL-1W4P™**

Simply the **most powerful** and **advanced** **System-in-a-Package (SiP) Reader Module** in the market



DESIGN ADVANTAGES

- | | |
|---------------------------------|---------------------------|
| Power Rating | - Highest in the Industry |
| Associated Range | - Highest in the Industry |
| Associated Read-Rate | - Highest in the Industry |
| Number of RF Ports | - Highest in the Industry |
| Level of Configurability | - Highest in the Industry |

A micro-package that delivers all necessary RFID components. Just connect power, communications, and RF antennas to start reading tags with the highest level of performance.

Air Interface Protocol	RAIN RFID EPCglobal UHF Class 1 Gen2 ISO 18000-63 (formerly 18000-6C) Dense Reader Mode (DRM) supported
Tx Output Power	Range: +10 to +31.5 dBm (max. determined by region) Default: +30 dBm
Antenna Ports	4 antenna ports: 2 connectorized ports 2 surface mount ports
Dimensions	38 mm by 52 mm by 4 mm
Package Type	35 pin, surface mount package (SMT compatible)
Rx Sensitivity	-74 dBm (1% packet error rate). Assumes 15 dB antenna return loss at 31.5 dBm output
DC Power Supply	3.2 to 5.25 Volts
Supported Regions	All major global regions supported
Compliance	FCC and Canada modular operation certification RoHS compliant

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17825 West Pond Ridge Circle, Gurnee, IL 60031
Phone: (847) 226-4057– Fax: (866)-391-7565
www.VerdaSee.com

