

# Curve RFID/BLE Verifier and Encoder



## Desktop RFID tag verification and Encoding

At only 8" x 8" the "Curve" provides a low profile (9/16" tall) integrated RFID antenna and reader solution with built in verification and encoding capabilities. Designed for tag on product commissioning and verification, the Curve also has built in visual go / no-go indicators to assist with tag verification.

## Useful for tracking Expired or Counterfeit product

With a quick scan of the tagged product over the reader, expired products can be verified in a database and the visual indicators built into the reader can provide immediate feedback of counterfeit or expired product.

## Versatile Communication Options

Integral to all Venture Research readers is the ability to daisy chain the readers via the CAN Bus. Many readers can be connected through a single gateway connection to the internet / network through the robust CAN Bus to minimize cabling. Also provided in the 'Curve' verifier and encoder:

- POE, WiFi, Serial and Cellular connections
- USB to connect to a local computer
- 2 GPIO inputs and 2 GPIO outputs
- Intelligent store and forward capability
- Full Linux operating system
- BLE or RFID Tag Readability

## Additional Peripherals

The reader can receive stimulus from external triggers or can output to additional peripheral such as locks, annunciators or additional LED indicators.

## 24 x 7 x 365 Support

Venture Research maintains a world class support organization that can provide real time monitoring and alerting of system operability. To learn how our Curve Verifier and Encoder Solutions can work for you, or to find out more about Venture Research's products and solutions, contact us at 866.RFID.111 or 469-246-4000 or visit us at [www.ventureresearch.com](http://www.ventureresearch.com)

## Product Features

Features	Benefits
Can perform verification and encoding functions	Expiration check, counterfeiting check and tag on product readability
Power over Ethernet or direct power	Simplifies implementations and minimizes desk space
Direct USB barcode interface	Allows for scan and encode without a computer
Integrated Antenna and 1 external antenna	Allows usage with built-in antenna or it can be extended to any additional external antenna
User Programmable built-in LEDs	Provides visual indication of the material readability
802.11b/g WiFi, RS232, GSM or Direct Ethernet connectivity	Provides the most flexible solutions regarding network requirements
Integral store and forward with direct web services update.	Ready for Cloud computing
Standard application programmers interface(API)	Compatible with all Venture Research products
Available in either HF or UHF configurations	Useful for any tagging application

# Specifications

## Electrical Specifications

Model	CURVE_RDR_001_XX
RFID Reader	1 Watt(30dBm) class 1 GEN2 (ISO 18006c) 2 Port reader, US (902-928 Mhz)(European frequencies ETSI-865-868 Mhz also available
Daisy Chain Operation	Single 12V cable with CANBUS protocol. Up to 4 curves can be daisy chained
Power	POE or direct connect at 12V - 1.5 A, optional battery backup
Diagnostic Indicators	Red, Yellow and Green diffuse LED's for local notification and diagnostics
RFID Antennas	1 Integrated Antenna One external SMA Jack to second antenna

## Interfacing

Connection	Serial, Aux Serial, Ethernet Cat5/6 (RJ45), USB-A, Wifi (802.11 b/g), BLE, CAN Bus, Optional Cellular
Protocol	Simple text based configuration and tag read stream (via Telnet). Online help is built in for all commands. Up to 5 independent simultaneous sessions.
Cloud Computing	Store and Forward with all filtering / aggregation being performed in the reader. Direct Web Service update capability using HTTP Post. SD Card storage.
Optional Sensors	Biometrics, Card, HF Badge, Camera, Floor mat sensor, motion sensor
BLE (Low Energy Bluetooth)	Can read both Eddystone and iBeacon protocols
I/O	2 In / 2 Out Conditioned
Operating System	Linux

## Display

Edge LED's	R,Y,G continuously variable programmable LEDs for operator feedback
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## Curve Reader Options

Applications	Tool Management, Tag Verification, Material Expiration, BLE tracker, Tag Encoding, Check in/out
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### Base Curve Configurations

Reader Surface - Base	CURVE_RDR_001_XX
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### Options

Power	Part Number
Battery Backup	CURVE_RDR-OPT-BATT-PACK
Battery Charger – Single Battery	CURVE_RDR-OPT-BATT-CHRG1
Battery Charger – Quad Battery	CURVE_RDR-OPT-BATT-CHRG4
Spare Battery	CURVE_RDR-OPT-BATT
POE Injector – 48v	CURVE_RDR-OPT-INJECT

### Communications

4G LTE Module	CURVE_RDR-OPT-CELL
Carrier Service – 1 Year	CURVE_RDR-OPT-CELL-CARRIER

### Sensor

Mat Sensor - 3'x1.5'	CURVE_RDR-OPT-CELL
External Input (PIR Motion Sense)	CURVE_RDR-OPT-PIR

### Cabling

CANBUS Interconnect Cable 15'	CURVE_RDR-OPT_CAN_15
Serial Interface Cable to USB	CURVE_RDR-OPT-USB-SER

### Notes

- Cellular requires yearly service contract
- Specify service provider at time of order (AT&T, Verizon, T-Mobile, Sprint)
- Each curve has a CANBUS inter face to daisy chain additional curves together
- ETSI / EU – 865-868 MHZ Version available at extra cost

## Warranty

- 1 year parts and labor
- 1 year, post 1 year maintenance agreement available

Specifications are subject to change without notice