ELECTRONIC VOUCHER TERMINAL

The Unique Micro Design (‘**UMD**’) Electronic Voucher Terminal (‘**EVT**’) is a new breed of intelligent data capture devices for Point of Service applications.

The EVT is an Internet of Things (‘**IoT**’) based device, requiring only Wifi Internet connection, and can operate standalone or connected to a host system (typically a POS system) via USB.

The addition of **cloud services** to the EVT creates a powerful and secure ecosystem which can deliver:

- A simple micro Point of Sale (‘**µPOS**’)
- A closed loop payment system
- A loyalty program front end
- Real-time marketing redemption at the POS
- Enhanced functionality that is unavailable from other data capture devices.

The EVT is POS agnostic:

- Reduces implementation time
- Removes integration cost
- Increases ease and flexibility of deployment to disparate sites

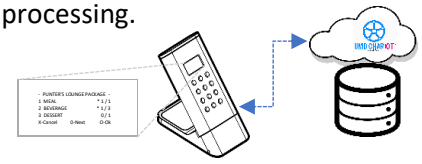
The EVT is comprised of:

- A fast barcode reader (‘**BCR**’) designed for commercial, retail and industrial applications, including the ability to read barcodes off mobile phones
- A Near Field Communications (‘**NFC**’) reader/writer
- Operator screen
- Keypad
- Audible and visual annunciation

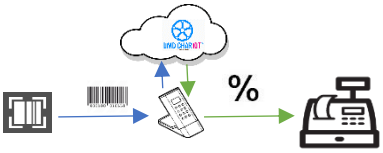
The EVT is primarily targeted at retail but is capable of many more applications. It is able to operate in the following main modes:

- **Simple data capture** mode which reads a barcode or NFC tag and passes this, or modified, information through to the POS.

- **Stand alone µPOS**, displaying and processing a simple configurable menu. µPOS has the option of cloud processing.



- **Intelligent data capture** mode which passes data to a cloud service for processing by business services, before returning the same or converted data to the POS.



The EVT is backed by the UMD ‘**CharIoT**’ terminal management and service broker platform.

CharIoT Terminal management provides:

- Over the Air (‘**OTA’**) configuration
- OTA device updates
- Device health monitoring
- Device logs
- Device groups

The Service Broker:

- Provides the ability to attach multiple **application services** to specified EVTs.
- The architecture allows granular business logic to be applied down to a single EVT.

Current UMD application services include:

- **BarTab:** Closed loop cashless payment system specifically for hospitality. Patron initiated and administered.

- **Disrupted Flights:** Closed loop payment system specifically for airlines. Manages patron redemptions at airport vendors and vendor settlement by airlines.

- **dQue:** Cashless payment overlay for standard event ticketing. Trusted third party account management with distributed account visibility to the Event Organiser, Vendors and Cardholders.

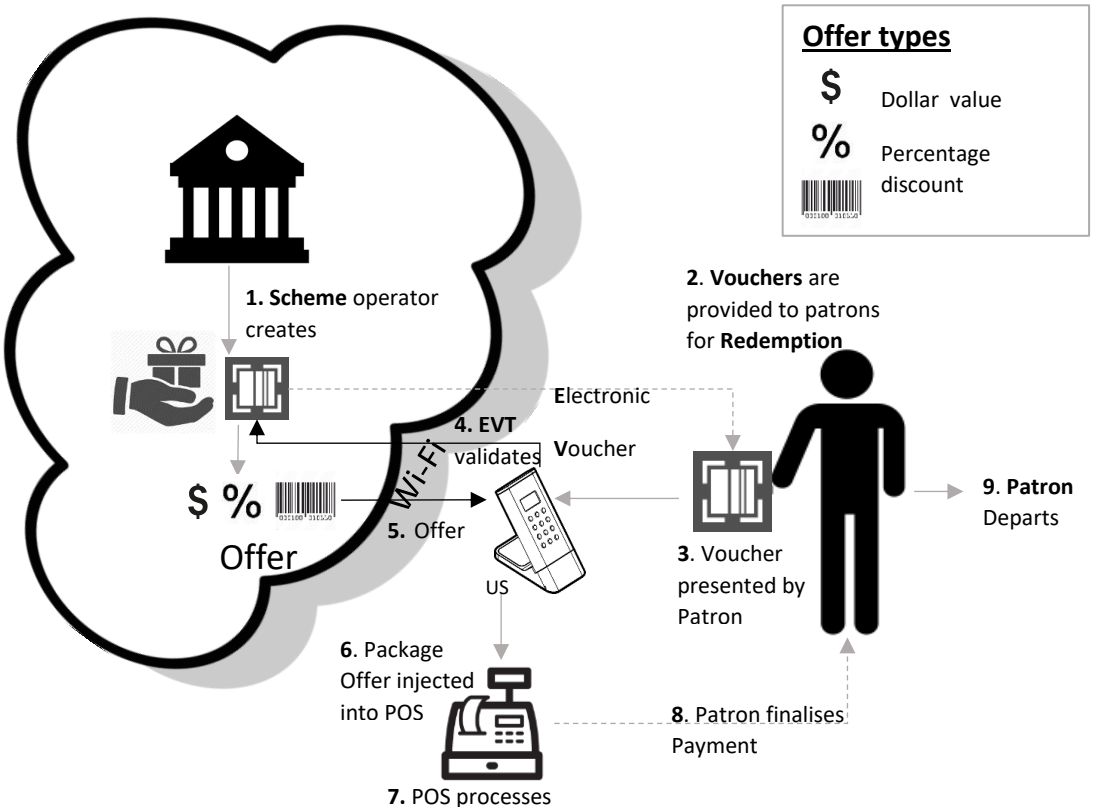
- **Loyalty & Rewards:** front end business tool for processing Loyalty programs in real-time at the POS.

- **SPS:** An e-commerce service that utilises SMS to initiate secure payments.

- **Third party services:** Easily accommodated by our secure API.

CHARIOT

Client Services



Specifications

Manufacturer / Model	Unique Micro Design / M782B
Mechanical	
Dimensions	67 (w) x 132 (h) mm x T.B.C. (d) mm
Weight	T.B.C. grams
Materials	ABS (Black), Polycarbonate (Clear), Silicone (Clear & Black), Stainless steel
Electrical	
Power	
Input Voltage	5V dc (4.5 - 5.5V) Via USB
Current	0.33 A – idle 0.55 A - with Barcode Scanning
Environmental	
Operating temperature	0°C to 40°C @ 90% relative humidity (non-condensing)
Display	
Type	OLED
Panel Size	60.5 (w) x 37 (h) mm
Resolution	128 x 64 pixels
Colour	White
Keypad	
Matrix	3 columns x 4 rows
Legend	0 to 9, cancel, enter, menu
Style	Silicone Rubber over Membrane Matrix
Visual notification	
Illumination type	Full colour LEDs
Type	Individually addressable RGB
Audible notification	
Type	Single tone buzzer
Description	2.4kHz, 88dB
Communications	
Wired	
POS / Host Interface	USB 2.0 Type A (Client)
Protocol	Human Interface Device (HID) and Serial Port Protocol (SPP)
Wireless	
Type / Standard	Wi-Fi / IEEE802.11b/g/n (2.4GHz)
Near Field Communication	
Wireless Protocol	ISO 14443 A / B ISO 15693
Data Protocols	Mifare Classic 1K/4K Mifare DESFire FeliCa
Barcode reader	
Scan Engine	Honeywell N66xx series
Symbology	All common 1D & 2D symbologies
Illumination	LED (white)
Aimer	LED (green)
Memory / Storage	
Type / Size	MicroSD / 16GB (supplied as standard)
Regulatory Compliance	
Body / Certification	A.C.M.A. / R.C.M. for Australia and New Zealand

Unique Micro Design Pty Ltd

Business Registration Numbers
ABN: 29-007-419-490
ACN: 007-419-490

Street Address:

Wellington Road Business Park
1 / 200 Wellington Rd
Clayton, Victoria, 3168
Australia

Postal Address:

P.O. Box 4297
Mulgrave, Victoria 3170
Australia.

Customer Service & Sales Inquiries

e-mail: sales@umd.com.au

Telephone: +61(0)3 9582-7070

