



# trio-iq

The Intelligent Modular Telemetry Gateway, 5-in-1  
NFC Contactless/Chip/Magstripe Cashless Reader

TRIO IQ introduces an intelligent and sleek ultra-modern, innovative design.

Combining a High Quality touchscreen, HDMI Full HD multimedia output, Full NFC support, 5mp Camera with QR Code scanner and BLE, all packaged in an elegant, smart design.

## Features

- ▶ 2 Configurations: Reader, Telemeter terminal
- ▶ High Quality Large touch screen – 3.97"
- ▶ Full NFC (Felica and P2P) support
- ▶ Rugged Full Bodied All-Weather resistance casing (IPX5)
- ▶ Network: Cellular, Ethernet, WiFi (optional)
- ▶ Interface: MDB, DEX, JVMA, USB, RS232 and IOs.
- ▶ Payment interfaces: Contactless EMV, Contact EMV, MagStripe, BLE, QR code.
- ▶ 5mp Camera, Proximity sensor, Speaker
- ▶ Rich Reader and Telemeter SDK
- ▶ Dual CPU: Cortex-M4 for reader and Cortex-A9 with Linux for Terminal

## Applications

- ▶ EMVCo L1
- ▶ EMVCo Modular Design
- ▶ EMVCo L2 Entry-Point:
- ▶ MasterCard PayPass
- ▶ Visa PayWave
- ▶ Amex ExpressPay
- ▶ Interac Flash
- ▶ Apple Pay
- ▶ Google Pay
- ▶ Samsung Pay
- ▶ Felica API
- ▶ Mifare API - DESFire/Classic/Ultralight



## Supported Applications:



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## SPECIFICATIONS:

### NFC Interface

- › PCD: ISO14443 A/B,
- › FeliCa JIS: X6319-4
- › ISO15693
- › P2P: ISO 18092 initiator ISO 18092 target (active only)

### Wireless Communication Interface

- › Bluetooth Low Energy (BLE) 4.1 (Optional)

### Mechanical

- › Dimensions:

Height	Width	Depth
107	85	36

### User Interface

- › 3.97" color display with Touch screen
- › Audio: Speaker (water resistant)

### Environmental

- › Temperature: -20C to +50C
- › Humidity: up to 95%
- › Water Ingress Protection: IPX5

## trio-iQ



## Telemeter configuration

### Power:

- › Voltage IN: 7-60VDC / 3A
- › Voltage OUT: , 100mA Filtered VIN, 500mA Via USBH
- › Backup Battery: 300mAh

### Data Connectivity:

- › Cellular modem:
  - › miniPCIe Interface
  - › Supports 2G, 3G, 4G LTE
  - › Standard micro SIM (2FF) slot x 1
  - › SMA female antenna connector x 2 LTE
- › LAN: RJ45 x 1 Ethernet 10/100Mbps
- › Vending Machine Interface: JVMA, MDB, DEX
- › Serial:
  - › USB Host x 1 - for EMV / FeliCa reader
  - › USB OTG x 1 - for console / external dongle

### Auxiliary I/O:

- › Digital: In x 2, Out x 3

### Analog: In x 1

### User Interface:

- › Display Output: HDMI 1.4, 1080p
- › Proximity sensor

### Connectors:

- › Molex iGeeed 26 PINS
- › USB: Type A
- › ETH: RJ45
- › Micro SIM
- › Micro SD
- › SMA x 2
- › SAM x 2

### Core:

- › CPU Core: ARM Cortex-A9 Single Co Scalable up to Quad-Core
- › CPU Speed: 1Ghz
- › OS: Linux (Android optional)
- › RAM: 512MB DDR3
- › Flash Memory: Internal eMMC 8GB + Micro SD Socket

## Reader configuration

### Power

- › 8-60 VDC
- › 5V, 500 mA from USB

### SAM Interface

- › SAM x 2

### Wired Communication Interface

- › USB Device - composite HID, MSD
- › Serial - RS232 / TTL

### CPU Platform

- › ARM Cortex-M4
- › 2MB Flash/384KB RAM
- › 16MB Flash, FAT32 File system, accessible via USB MSD

### Connectors

- › JST 10 PIN with lock
- › Micro SIM x2

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