



TP5800 TICKET PROCESSOR



Overview

The Vix TP5800 Ticket Processor with thermal printer enables rapid fare collection through EMV smart card and NFC processing. It can be used either as part of an integrated on-bus network or as a standalone fare collection device.

The TP5800 Ticket Processor has a range of communication options to expand its system integration capabilities. These allow connection to devices such as vehicle location systems, automatic vehicle management systems, portable hand-held inspection devices, laptop computers and other peripheral equipment.

The driver's 4.7" TFT screen is complemented by a contactless smart card reader incorporating a 3.5" TFT with high impact glass to provide rapid fare collection and enhanced passenger throughput. The smart card reader is fully EMV compliant and payWave/PayPass certified. It is NFC ISO 18092 ready, for use with NFC enabled devices. Tickets and passenger receipts are printed by an internal thermal line printer.

The Vix patented "Ring of light" LED illumination can be colour coded to provide intuitive feedback for passengers to see the state of the card transaction. The integral amplifier and speaker allow audio messaging and provide multi-lingual support.

Driver interaction is enabled through 24 buttons (five soft buttons at each side, four soft buttons below the display and ten fixed function buttons). Each button is backlit with an individually controlled RGB LED. This allows keys to be flashed or lit in specific colours to notify the operator of an event requiring interaction.

Wireless access point mode networking allows connection of validator units wirelessly through WLAN, saving significant installation and wiring costs.

Key features

- Rapid fare collection through smart card processing
- Integral printer to dispense tickets and receipts
- Built-in Automatic Vehicle Location (AVL) capability
- Fully EMV compliant, payWave/ PayPass certified and ready for use with NFC enabled devices
- Certified fully ITSO compliant.

About Vix

Vix is a global provider of integrated transit and mobility systems making it easy for people to use and pay for urban transport.

We design, manufacture, deliver and operate intelligent transport, fare collection and passenger information systems for transit operators around the world, serving over 140 million users in 25 countries.

Vix products and services encompass a wide range of transport and transit solutions including Automated Fare Collection (AFC), Intelligent Transport System (ITS), Real Time Information (RTI) for both fleet management and passengers, and Central Clearing House (CCH) services.





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Product Code	TP5800 Ticket Processor
Passenger interface	<ul style="list-style-type: none">• The TP5800 incorporates a bright colour 4.7" TFT-LCD driver display, resolution 480x262 pixels• The 3.5" TFT patron display has a resolution of 320x240 pixels, + VGA colour• The angled top face of the device provides a contactless target, and an illuminated colour ring indicates transaction status and visual highlights• Digital audio allows high quality sound, including voice messages to driver or patron• 24 buttons, individually backlit with RGB LEDs• Multiple language support.
Card reader support	<ul style="list-style-type: none">• Contactless smart card reader supporting ISO 14443 Types A and B, EMV L1/L2/payWave/PayPass compliant (including TQM certification)• NFC enabled for smart phone use.
Electrical	<ul style="list-style-type: none">• Communications:<ul style="list-style-type: none">– 10/100Mbps Ethernet– Dual RS232– RS232 and high speed side USB 2.0 diagnostic port– RS485 (optional galvanically isolated RS485)– 1-wire for active mounting cradle– High speed SAM support for up to two SAMs– Optional 802.11bgn WLAN, GPS, GPRS/3G/4G with internal or external antenna options– Optional Arcnet/USB 2.0/CAN/J1708 communications via a plug in expansion board• Opto isolated remote on/off and ignition control with advanced programmable power management• Opto isolated input which can be used for door input sensing• 1A fused, software controlled relay output pulled to ground• Power supply: 9V dc to 38V dc from the vehicle supply (18V minimum required to power the printer).
Configuration	<ul style="list-style-type: none">• Contains a 400MHz Viper Power PC (800MIPS)• 256MB DRAM• 1MB SRAM• 2GB Flash memory (replaceable uSD card)• Operating system: Linux.
Physical	<ul style="list-style-type: none">• Dimensions: (h) 220mm x (w) 250mm x (d) 270mm• Weight: 2.75kg• Mounting: typically secured by a lock to a mounting cradle• EN50121 rolling stock certified• Operating Temp: -20°C to +55°C• Storage Temp: -30°C to +70°C• Humidity: to 95% non-condensing• Environmental: IP43 (to BS EN 60529) - printer slot rated at IP21• Impact resistance: IK08 (to BS EN 62262).
Audio	<ul style="list-style-type: none">• Integral 4W amplifier and speaker.
Compliance	<ul style="list-style-type: none">• Vix supplies products to meet many local and globally recognised standards such as CE, RoHS, FCC, various Smart Card standards and many others. For more details on how Vix meets your local requirements please contact Vix directly.

Stringent reliability testing is performed on all equipment.
To ensure the highest quality, specifications may change without notice.

