

Farebox 1030



Farebox 1030 at-a-glance:

- Integrated farebox for mobile fare collection
 - Storage capacity up to 512 KB RAM
 - Communications to depot computer system via infrared optical probe
 - Option: J-1708 interface to other on-board devices, such as passenger signs and annunciators
 - Upgradeable to Cubic's Driver Control Unit for enhanced operator interface and single control of all on-board equipment
- Flexibility of payment options
 - Registers U.S. and Canadian bills
 - Validates 10 coins per second via electronic signature at a 99.5% accuracy rate
 - Upgradeable to accept magnetic tickets for intermodal travel
 - Upgradeable to accept ISO 14443 Type A and Type B full featured and limited use contactless smart cards using Cubic's Tri-Reader®
- User-friendly interfaces
 - Simple, easy-to-read displays
 - Bill and coin viewing window to resolve issues and prevent fraud
- Superior security
 - Rugged stainless steel exterior
 - Each cashbox automatically tracked by serial number
- High availability, reliability and maintainability
 - Self-diagnostics
 - Modules can be replaced in seconds without the use of tools
 - Field proven by more than 20 years of revenue service

The Farebox 1030 is designed for mobile fare collection, the 1030 Farebox collects and processes a variety of payment options, including U.S. and Canadian bills and coins, tokens, paper tickets, magnetic tickets and ISO 14443 Type A and Type B full featured and limited use contactless smart cards.

How it works

The farebox registers bills and accepts ten coins per second. Coins are automatically singulated so patrons can drop a handful of coins at once and quickly board the bus. The coins are validated via electronic signature at a 99.5% count accuracy rate.

The 1030 Farebox features a bill and coin viewing window to allow visual acceptance in the event of a jam, or suspect transaction. The built-in self-diagnostic capability makes it quick and easy to identify and correct problems.

Each cashbox is tracked automatically by serial number. Transaction data is transmitted from the farebox via infrared optical probe with cabling to the depot computer system.

This highly reliable, rugged farebox is field proven by more than 20 years of revenue service. It continues to offer superior fare collection today for bus operators of all sizes. With the integration of Cubic's Driver Control Unit, the bus system can be upgraded to accept smart media, enhance the operator interface, and provide a single point of control of all on-board equipment.

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Specifications:

Physical

Dimensions: Height 1003mm (39.5in), Width 264mm (10.4in), Depth 241mm (9.5in)

Weight: 49kg (108lbs) with empty cashbox

Material: 1.9mm (0.075in) thick stainless steel cabinet, 3.18mm (0.125in) thick aluminum casting top cover, polycarbonate viewing window

Voltage: 10 to 18 VDC, 37 VDC option

Power Dissipation: 144W Max, 1W Min

Capacity

Processor: Intel 80C32, operating at 11 MHz

Operating System: N/A

Memory: 512 KB static RAM

Cashbox Capacity: \$700 in mixed coins, 800 bills/paper media

Data Transfer Probe: 9600 Baud

External Interfaces

SAE J-1708/1587 interface connector

Infrared portable data transfer probe

Environmental

Storage Temperature: -31.7°C to +65.5°C (-25°F to +150°F)

Operating Temperature: -3.9°C to +43.3°C (+25°F to +110°F)

Relative Humidity: 20% to 99%

Vibration: Mil-Std-810D, Method 514.3, Category 8, 1.5g (RMS)

Vertical and 1g (RMS) other two axes for 2 hours

Shock: Mil-Std-810D, half-sine pulse, 5g peak, 20msec

Ingress Protection: Not Rated

Immunity: Mil-Std-461B, Requirement RS03, 15 KHz to 1000 MHz;

SAMA Standard PMC 33.1, Class 2 (10 Volts/meter)

Emissions: FCC 15J, Class A

User Interfaces

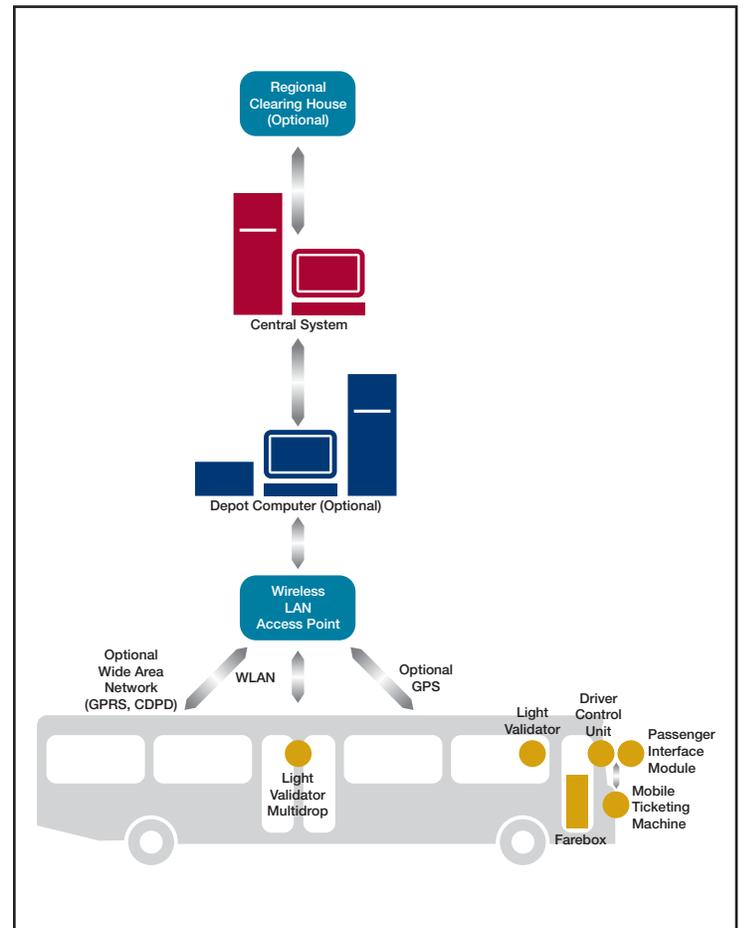
Operator Interface: numeric display (4 digit, 7 segment LED), alphanumeric display (8 character 5 x 7 dot matrix LED), audio transducer, keypad with backlight (12 keys), coin and paper inspection plates, coin dejam mechanism, coin bypass mechanism

Patron Interface: coin/token entry slot, bill entry slot, patron display (8 character dot matrix LED)

Media Issuance: magnetic tickets (option)

Media Acceptance: U.S. and Canadian coins, tokens, magnetic transfers and passes (option), ISO 14443 Type A and Type B full featured and limited use contactless smart cards (option)

Tri-Reader® is a registered trademark of Cubic Transportation Systems, Inc.



Cubic Transportation Systems, Inc. World Headquarters

5650 Kearny Mesa Road
San Diego, CA 92111 USA

Telephone: +1-858-268-3100

Fax: +1-858-292-9987



In the interests of product improvement Cubic reserves the right to change the above specification without notice.