

Light Validator 5200



Light Validator at-a-glance:

- Operates in conjunction with Cubic's Driver Control Unit for mobile fare collection across transit modes
 - Driver Control Unit serves as the host processor
 - Wide range of data upload/down load options
 - Flexibility of fare structures from simple to complex — time, zone, value and/or multi-trip
 - Well suited for check-in and check-out validation
 - Cost effective to multi-drop for front and rear entry/exit validation
- Cubic's Tri-Reader® for secure processing of ISO 14443 Type A and Type B full featured and limited use contactless smart cards
 - Simple and low cost upgrade of legacy systems through smart card overlay
 - Freedom of card choice
 - Ease of use, customer convenience
 - Faster boarding
 - Reduced fraud
 - Reduced maintenance
- Simple passenger interfaces
 - Easy-to-read transreflective liquid crystal display
 - Optional buttons for passenger selection
 - Quick visual indication of status with Red/Yellow/Green light-emitting diodes
 - Distinct audible tones to alert passenger of status
- Small, ultra compact design
 - Flexibility to attach to handrails, posts, stanchions, walls or fareboxes
 - Simplified installation
 - Simplified maintenance

The Light Validator is peripheral to Cubic's Driver Control Unit and is designed to process contactless smart cards for mobile fare collection across transit modes including bus, bus rapid transit, tram, ferry, and train.

The Light Validator is well suited for check-in and check-out validation with time and zone-based fare structures. The low-cost validator can be multi-dropped for front and rear entry/exit validation.

How it works

The Light Validator quickly reads the card, calculates the required fare, deducts the correct fare from the stored value or stored rides on the card, and re-encodes the remaining value or number of rides to the card or validates a transit pass on the card. Transactions are forwarded to the Driver Control Unit for retention and subsequent transmission to the depot computer and/or central computer system. Both passenger and driver are immediately notified of fare status via a liquid crystal display, color light-emitting diodes and audible alerts.

The use of contactless smart cards results in greater customer convenience and a dramatic reduction in boarding times, fraud and maintenance costs.

Light Validator

Specifications:

Physical

Dimensions: Height 174mm (6.8in), Width 153mm (6in),
Depth 136mm (5.3in)
Weight: 1.4kg (3lbs)
Material: high impact plastic
Voltage: 9 to 36 VDC, protected to 120 VDC
Power Dissipation: 4W Max, .6W Min

Capacity

Processor: ARM 9 - Atmel SAM9261
Flash Memory: Configurable 32 to 128 MB
32 MB Synchronous Dynamic Random Access Memory (SDRAM)
256 KB Static Random Access Memory (SRAM), battery backed
Clock: real-time, battery backed

External Interfaces

RS-422/485
RS-232

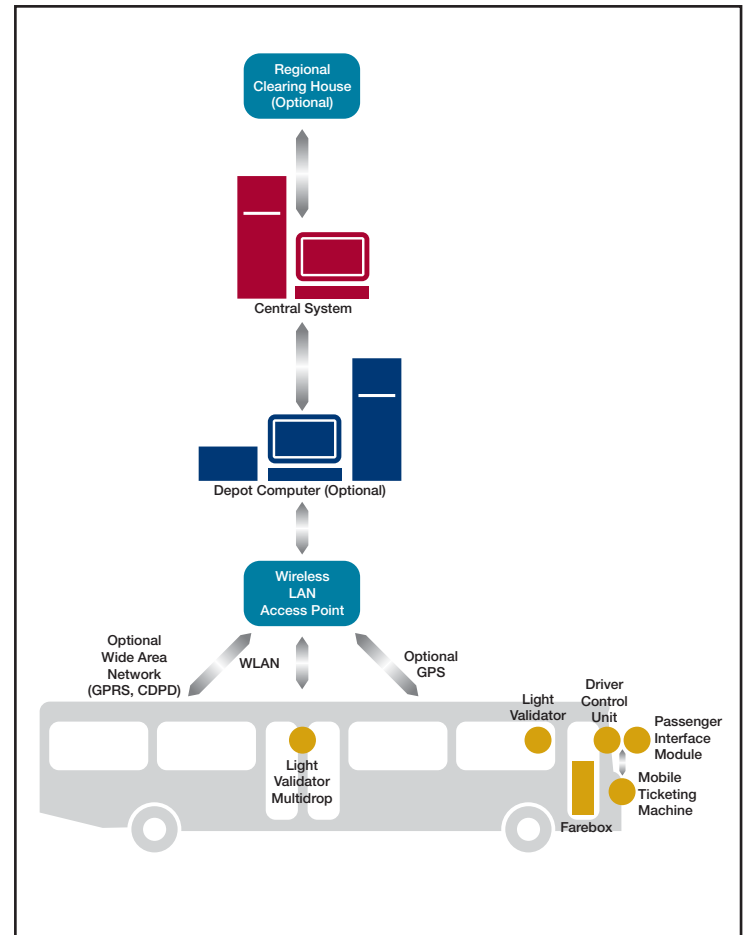
Environmental

Storage Temperature: -30°C to +85°C (-22°F to +185°F)
Operating Temperature: -20°C to +60°C (-4°F to +140°F)
Relative Humidity: 20% to 95%
Vibration: Mil-Std-810D, Method 514.3, Category 8, 1g (RMS) all three axes, 5 to 200 Hz
Shock: Mil-Std-810D, Procedure I, half-sine pulse, 20g peak, 11msec
Ingress Protection: IP54
Immunity: EN61000-6-2, EN50121-4
Emissions: EN61000-6-3, FCC 15B, Class B, CE
Flammability: UL 94V-0

User Interfaces

Operator Interface: N/A
Patron Interface: 2 line x 16 character transfective monochromatic LCD, 2 sets of red, yellow and green LEDs, speaker, 4 optional selection buttons
Media Issuance: N/A
Media Acceptance: ISO 14443 Type A and Type B full featured and limited use contactless smart cards

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



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