

MG3000

The MG3000 metro gate ticket validator is designed specifically for the use in Automatic Fare Collection (AFC) systems for public transport, e.g. metro stations, ferries, trams, railway, and other transportation means.

The MG3000 supports all major smart cards compliant to ISO 14443 Type A and B standards, Felica, and Vicinity (13.56 MHz). The powerful microprocessor ensures a high-speed transaction processing.

The MG3000 is equipped with the EMV3000 contactless card reader, which is EMV L1 certified, EMV L2 certified for Mastercard, Visa, American Express, Discover and Pure, and PCI PTS POI 5.1 certified.

Two up to four on-board SAM card slots and one reader SAM card slot for holding payment SAM cards ensure the security and integrity of the transactions.

For user ergonomics, the MG3000 is equipped with a high-resolution graphic TFT display.



Key features

- Support for Linux operating system
- Up to 4 on-board SAM card slots and 1 reader SAM card slot
- I2S Audio codec
- 5.7" 640x480 graphic TFT display
- 17 Inputs, 9 outputs
- 2 USB ports
- EMV3000 contactless card reader
- Compact dimensions to ease installation

Options

- 4G/LTE modem
- WIFI
- Bluetooth



Mechanical

Dimensions	Millimetres	Inches
Enclosure:	237 H x 130 W x 31 D	9.33 H x 5.12 W x 1.22 D
Weight	Grams	Lbs
Enclosure:	800	1.76

Environmental

Temperature	Celsius	Fahrenheit
Operating temperature:	-20 °C to +70 °C	-4 °F to +158 °F
Storage temperature:	-30 °C to +80 °C	-22 °F to +176 °F
Humidity		
Operating humidity:	< 75% RH	
Storage humidity:	< 93% RH	

Electronic

Intelligence:	Dual core ARM Cortex A9 CPU
Memory:	Up to 2GB DDR3 memory 4GB-32GB eMMC 2MB SPI NOR flash
Storage:	Option: eUSB flash drive
Interface types:	1 RS232 1 RS485 2 USB 2.0 ports 1 Ethernet 10/100/1000 Mbit 17 digital inputs, 9 digital outputs, 2 relay outputs
Display:	5.7" Colour graphic TFT display 640x480 pixels Light sensor for automatic backlight adaptation
Keyboard:	Option: Multitouch capacitive touchscreen
Audio:	On-board I2S codec with external speaker
Card reader:	EMV3000 contactless smart card reader, EMV L1 certified, EMV L2 certified for Mastercard, Visa, American Express, Discover and Pure, and PCI PTS POI 5.1 certified Option: Other EMV payment kernels (JCB, CUP ...)
Security:	Up to 4 on-board SAM card slots, 1 SAM card slot in EMV3000
Communications:	Options: 4G/LTE modem (mini PCIe card via USB), WIFI (mini PCIe card), Bluetooth (mini PCIe card)
Power supply:	Switched mode power supply Wide input voltage (10-36V)