emsyscon solutions
Member of Prodata Mobility

ABT3000

The ABT3000 Account Based Ticketing validator is designed specifically for the use in Automatic Fare Collection (AFC) systems for public transport, e.g. buses, ferries, trams, railway, and other transportation means.

The ABT3000 supports all major smart cards compliant to ISO 14443 Type A and B standards, Felica, and Vicinity (13.56MHz).

The powerful i.MX6UL (ARM Cortex A7) microprocessor ensures a high-speed transaction processing.

The ABT3000 is equipped with the EMV3000 contactless card reader, which is EMV L1 compliant, EMV L2 compliant for Mastercard, Visa, and American Express, and PCI PTS POI 5.1 compliant.

An optional integrated GPS receiver enables fleet management, vehicle location, and flexible fare calculation.

2 SAM card slots for holding payment SAM cards ensure the security and integrity of the transactions.

For user ergonomics, the ABT3000 is equipped with a 320x240 3.5" graphic TFT display.

ABT3000 Key features

- Cortex A7 CPU (i.MX6UL by NXP)
- Support for Linux operating system
- 2 SAM card slots
- 3.5" 320x240 graphic TFT display
- EMV3000 contactless card reader
- Compact dimensions to ease installation

ABT3000 Options

- Barcode reader
- GPS modem
- 3G/4G modem
- I2S Audio codec
- Bluetooth
- WIFI

Specifications ABT3000

Mechanical

Dimensions	Millimetres	Inches
Enclosure:	158 H x 101.95 W x 60.50 D	6.22 H x 4.01 W x 2.38 D
Enclosure + mounting kit:	158 H x 101.95 W x 109.23 D	6.22 H x 4.01 W x 4.30 D
Weight	**Grams**	**Lbs**
Enclosure:	520	1.15
Mounting kit:	300	0.66

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:	NXP i.MX6UL Single core ARM Cortex A7 CPU
Memory:	512MB/1GB DDR3 memory 4GB-32GB eMMC
Storage:	Optional microSD flash drive
Interface types:	1 Ethernet 10/100 Mbit
Display:	3.5″ Colour graphic TFT display 320x240 pixels Light sensor for automatic backlight
Keyboard:	Optional multitouch capacitive touchscreen
Audio:	PWM audio Optional on-board I2S codec with internal speaker
Card reader:	EMV3000 contactless smart card reader, EMV L1 compliant, EMV L2 compliant for Mastercard, Visa, and American Express, and PCI PTS POI 5.1 compliant Optional barcode reader
Security:	2 SAM card slots
Communications:	Optional 3G/4G modem Optional WIFI Optional Bluetooth
Location services:	Optional GPS modem
Power supply:	Switched mode power supply Wide input voltage (9-36V)