PRODATA PTexcellence

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 with ISO 14443 Type A and B standard, Felica, and Vicinity (13.56 MHz).

The powerful microprocessor ensures a high-speed transaction processing.

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

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

Two on-board SAM card slots and one reader SAM slot 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

- Powerful processor
- Support for Linux operating system
- 2 on-board SAM card slots, 1 reader SAM slot
- 3.5" 320x240 graphic TFT display
- I2S Audio codec
- EMV3000 contactless card reader
- Compact dimensions to ease installation

ABT3000 Options

- Barcode reader
- GPS modem
- 3G/4G modem
- Bluetooth
- WIFI

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 +55 °C	-4 °F to +131 °F
Storage temperature:	-30 °C to +80 °C	-22 °F to +176 °F
Humidity		
Operating humidity:	< 95% RH	
Storage humidity:	< 95% RH	

Electronic

Intelligence:	Cortex A7 single core CPU 696MHz ➔ Cortex A53 quad core CPU 1.6 GHz (option)
Memory:	1GB DDR3 memory (up to 4GB, based on chosen processor) 4GB-32GB eMMC
Storage:	SD card slot available
Interface types:	1 Ethernet 10/100 Mbit
Display:	3.5" Colour graphic TFT display 320x240 pixels Light sensor for automatic backlight
Keyboard:	Multitouch capacitive touchscreen
Audio:	PWM audio with on-board I2S codec with internal speaker
Card reader:	EMV3000 contactless smart card reader, EMV L1 certified, EMV L2 certified for Mastercard, Visa, American Express, Discover, and PCI PTS POI 5.1 certified. Option: other EMV payment kernels (JCB, CUP...) Option: barcode reader
Security:	2 on-board SAM card slots, 1 SAM card slot in EMV3000
Communications:	Options: 3G/4G modem, WIFI, Bluetooth
Location services:	Option: GPS modem
Power supply:	Switched mode power supply Wide input voltage (9-36V DC)