

Zeal[™]

INDIA'S 1st FULLY INTEGRATED MICRO ATM



Technical Specifications

Microprocessor

Processor	: High Performance ARM9 Core with 200Mhz Operating speed
Memory	: NAND Flash - 128MB expandable up to 2GB and SDRAM 64MB expandable up to 256MB
SD Card Reader	: Micro SD Card reader for Memory expansion (4GB)

Software Specifications

Operating System	: Linux version 2.6
Software	: Easy to use SDK AppWorks Kit, InBuilt SQLite Support, XML Support, CryptoLibrary Support, Terminal management Systems (TMS) support

Security Features

Algorithm	: DES, 3DES, RSA SSL Support
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Printer Specifications

Printer	: 2" Thermal printer, 8dots/mm, text, bar code and graphic printing, 24 to 42 characters per line with built in 4 types of fonts
Resolution	: High resolution of 0.125 mm dots (8 dots/mm) with effective printing area 48mm

Communication Interface

Communication Modules	: Bluetooth V2.1 + EDR interface, Wi-Fi 802.11, USB 2.0 host and device Interface, RS232 (9600bps to 11520bps), GSM/GPRS (Dual/Quad band)
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Card Readers

Magnetic Card Reader	: Two Track Magnetic card reader, ISO/IEC 7813 supported cards, Bi-directional card swipe
Smart card reader	: Two ISO 7816-1,2,3 & 4 Smart-card reader interface, Asynchronous Cards: T=0 and T=1, Synchronous/Memory Cards (1.8V/ 3.3V/ 5V cards)
SAM	: Two SAM (Security Access Module) slots
Contactless smart card reader	: Supports all Mifare cards, ISO 14443 Type A/B T=CL cards and NFC IP

Finger Print Specifications

FPS Specifications	: Optical sensor supporting ISO SC37 19794-2/4 or ANSI/INCITS 378 template formats, 500 dpi resolution and capture area 14mm x 22mm
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Voice Module

Voice Module	: Voice (speaker) guidance through MP3 or wave file format play
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Camera

Camera	: Up to 1.3MP interface to capture the image, Supports ITU-R BT.656-4 YUV (YCbCr) 4:2:2 formats
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User Interface

Display	: 128x64 Graphical Grey Scale LCD, Optional 320x240 pixel TFT color LCD
Keypad	: 19 keys including 4 Functional keys

RTC

RTC	: Built in Real Time Clock
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GPS

Number of satellites	: 22 Channels
Protocol	: NMEA

Power Specifications

Battery operated	: Li-Ion 7.4 V/1800 mAH, Charger, USB Charging option, Battery management (monitors battery for longer life and performance)
DC Operated	: 8V, 3.5A, Optional Automotive power supply

Mechanical Specifications

Dimension	: L x W x H (160x80x40) in mm
Weight	: Approx. 300 gms

Environment

Humidity	: 95% RH non condensing
Operating Temperature	: 0°C to 50°C
Enclosure	: Ergonomic ABS + PC plastic body, Handy



Graphic /
TFT LCD



Finger Print
Scanner



Dual ISO 7816
Smartcard Reader



Full speed USB 2.0
device and host



Polydome
Keypad



WiFi



Thermal
Printer



Two RS232
Serial Ports



SAM Security Access
Module



Bluetooth 2.1



GSM



GPRS



BAR code
Reader



Contactless
ISOIEC 14443A
Smartcard Reader



Dual Track
ISO 7813 Magnetic
Card Reader



16 Channel
NMEA GPS

Accessories:



Standard
Battery



Software
Development Kit



USB ActiveSync
Cable



Automotive Battery
Charger



Solar
Charger



Manual &
Support Apps



Carrying
Pouch



Thermal
Paper Roll