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## Digi-PDA (SBC 2440V-II)

### APPLICATIONS METER READING



By using Digi-PDA, meter readings can be directly entered into the concerned department DATABASE with the help of built in GPRS module.



### KEY FEATURES

- ARM-920T Single Board Computer based on Samsung S3C2440A
- Easy to operate and carry
- Easy to develop applications
- Battery time of 10 hours
- Rugged beyond the ratings
- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware Support
- Guaranteed Warranty

Digi-PDA (Personal Digital Assistant) is especially designed for industrial applications that may vary from one need to another. It's built on the Modulus platform, so it's easily extended using a wide range of hardware modules – anything from passport readers and fingerprint scanners to WAN radios, laser scanners, imagers and Bluetooth® printers. Plus a growing range of connectivity peripherals (RS232, USB...) that mean you'll never regret your decision.

Our many partners are always developing new modules. Choose one to meet your unique needs, change one when your needs evolve or use the Hardware Development Kit to make your own.

It is relied on every day in mobile-intensive applications such as asset tracking, meter reading, and mobile ticketing across a variety of industries such as field service, courier, retail, warehousing and manufacturing – and the list continues to grow.

Choose WiFi, GPRS/EDGE or 3G HSDPA voice and data. Choose numeric or full alphanumeric keyboards. Choose your scanners, imagers and RFID options.

Even once deployed, you've still got options, with a universe of hardware modules and software applications to choose from. It is tested to withstand drops from six feet to concrete and easily handles different kind of shocks and vibrations.

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## APPLICATIONS

## TECHNICAL SPECIFICATIONS

### CPU

- Samsung S3C2440A@400-533MHz

### SDRAM

- 64 - 256M SDRAM on board
- 32 bit data bus
- SDRAM clock frequency can reach up to 100MHz

### FLASH MEMORY

- 128MB - 1GB Nand Flash on board, nonvolatile
- 2M Nor Flash on board, nonvolatile

### LCD

- 3.5" (240X320 pixel)

### INTERFACES AND RESOURCES

- One 100M Ethernet RJ-45 interface (DM9000 Ethernet chip adopted)
- 3 serial ports (1 RS232 and 2 TTL levels)
- One USB Host
- One USB Slave (B-type interface)
- One SD card interface
- User LEDs
- Complete alpha numeric keypad
- One PWM control buzzer
- One I2C bus (AT24C08 chip)
- One 20pin (2.0mm space) camera interface
- RTC battery on board
- Lithium Ion Battery and power connector

### SYSTEM CLOCK SOURCE

- 12MHz passive crystal

### RTC

- Internal real time clock, battery backed

### WIRELESS COMMUNICATION

- USB WIFI STICK TL-WN321G+ (ADD-ON)

### BARCODE

- ADD-ON

### RFID MODULE

- ADD-ON

### USER INTERFACE

- Color touch screen display 3.5 in (240X320 pixels)
- Sunlight readable (for outdoor use)
- High reliability LED backlight
- Touch Screen (standard)
- Full alpha-numeric Keyboard
- Membrane type high durability hard-capped keys

### OPERATING SYSTEM

- Windows Embedded Compact 5.0 (WINCE 5.0)
- Embedded Linux
- Real Time Operating System (RTOS)
- Microcontroller Operating System ( $\mu$ COS2)

### PROGRAMMING ENVIRONMENT

- Software Development Kit would be provided on request along with complete Board Support Package
- Microsoft visual studio 2005/2008 or higher with dot net frame work 2.0 or 3.5
- Java programming using J2ME
- Embedded C++ programming
- HTML/DHTML programming
- Driver programming (to interface general purpose I/Os or ADC, etc) using Microsoft Platform Builder

### APPLICATION SOFTWARES

- MSN messenger
- Terminal Emulator
- Microsoft Office viewer
- PDF viewer
- Microsoft WordPad
- Internet Explorer
- Java applet for Wince 5.0  
.....and many many more

### POWER MANAGEMENT

- Lithium Ion 2000 mA H Battery for 10 hours life time

### ENVIRONMENT

- Withstands multiple drops from 6 ft (1.8 m) to concrete.
- Rain/Dust: IP65, IEC 60529
- Operating temperature: -4°F to 122°F (-20°C to +50°C)
- 5%-95% RH non-condensing
- Storage temperature: -40°F to 140°F (-40°C to +60°C)
- ESD: +/- 8kVdc air discharge, +/- 4kVdc contacts

### PHYSICAL DIMENSIONS

- 6" x 4" x 1.5"

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