

J-Slate

The Rugged Java Pen Computer

....the first in a new breed of field appliance



❖ An appliance type device

The 'instant-on' feature makes the application immediately useable, it's just like a cell phone you simply *turn it on and use it*

Designed to run Java applications the J-Slate uses WindRiver's VxWorks operating system, a small footprint real-time operating systemthe only operating system to have outsold Windows!

The Tadpole J-Slate provides a powerful tool for workers who need run enterprise applications for viewing and updating documents and graphical data. The J-Slate is a simple to use tool (or appliance) that is designed specifically for workers who are not normally expected to be experienced in the use of computer equipment.

❖ A rugged field tool

Housed in a rugged, weatherproof, magnesium alloy case the J-Slate is designed to survive the rigors of use in hostile environments. It can be used in a rainstorm and has been designed to withstand a 1 metre drop test on to concrete.

Also being a diskless product the J-Slate contains no rotating media devices, this provides an additional level of robustness and reliability compared with Windows based mobile computers.

❖ An outdoor readable, 10.4" color display

The J-Slate has a bright color screen, this is vital for color graphics applications such as the GIS mapping applications demanded by field workers in the utility and telecommunications industries.

❖ Communications options

Field workers who operate over large geographical areas require good communications options to connect with corporate information systems. As well as standard land line telephone modems and ethernet the J-Slate has the capability to internally support a wide variety of wireless LAN and WAN communications devices, including ARDIS, Mobitex, Telxon Air-I/O, CDPD, RIM Radio and GSM phone modules. There are even sufficient interfaces on the J-Slate to support satellite communication options if this is required.

J-Slate Specifications

Software

- ❖ Operating System: WindRiver VxWorks®
- ❖ Java Virtual Machine: Sun JVM Ver. 1.1.6,
WindRiver Personal JWorks™

Processor/Performance

- ❖ 190MHz Intel StrongARM

Memory

- ❖ 16-64MB DRAM
- ❖ 8-20MB FLASH memory
- ❖ Rev. 2.1 Compact Flash Socket (configured to work in True IDE mode), for 3.3v cards

Display

- ❖ Thin Film Transistor (TFT) active matrix LCD
- ❖ Resolution: 640 x 480
- ❖ Color Palette: 256 colors
- ❖ Display Size: 10.4"
- ❖ Display brightness: 180NITS (typical)
- ❖ Passive pen interface via resistive touch panel

PCMCIA

- ❖ One, user accessible, Rev. 2.1 socket for Type I, II or III cards

Standard External Interfaces

- ❖ Serial: One RS-232C serial port
- ❖ Audio: 12-bit audio mixed with PCMCIA audio and optional internal GSM phone audio; internal speaker and microphone
- ❖ IrDA: 4Mbit/s IrDA interface
- ❖ USB: USB host interface
- ❖ DC Power Input: +15VDC @ 2.0A
- ❖ Docking: Keyboard and Vehicle Mount Docking
- Options with additional interface options:
 - ❖ Additional serial ports
 - ❖ Optional ethernet
 - ❖ VGA port for external monitor
 - ❖ PS/2 Keyboard and Mouse ports
 - ❖ IEEE 1284 compatible port

Batteries

- ❖ Options of:
 - ❖ 6-cell, 2400mAh Li-Ion battery pack
 - 8 hour typical run time
 - ❖ 9-cell, 3900mAh Li-Ion battery pack
 - 12 hour typical run time
- ❖ Charge status indicator on all battery packs

Power Management

- ❖ Auto shutdown when idle

Controls

- ❖ On/Off push button
- ❖ Right Mouse button
- ❖ Function button (s/w configured)
- ❖ Backlight On/Off
- ❖ Display brightness controls
- ❖ "Hidden" reset pushbutton

Status Indicator LED's

- ❖ Battery charging
- ❖ Low battery warning
- ❖ Status indicator
- ❖ Radio status

AC Power Adapter

- ❖ Automatic voltage and frequency sensing
- ❖ Voltage: 100 - 240VAC
- ❖ Frequency: 47 - 63Hz
- ❖ Power output: 30 Watts
- ❖ DC output: +15VDC
- ❖ Safety: CE, UL

System Dimensions

- ❖ Length: 12.35" / 31.4cm
- ❖ Width: 8.7" / 22.1cm
- ❖ Depth: 2.03" / 5.1cm (6-cell battery pack);
2.13" / 5.4cm (9-cell battery pack)
- ❖ Weight: 5.4lb / 2.46Kg (6-cell battery pack);
5.7lb / 2.59Kg (9-cell battery pack)

Environment

- ❖ Operating: 0 to 50°C
- ❖ Storage: -25 to 70°C
- ❖ Operating humidity: 0 to 95% non-condensing
- ❖ Operating altitude: 0 - 4500m
- ❖ Shock: 1m drop onto concrete
- ❖ Vibration: MIL-STD 810e basic transportation
- ❖ Water resistance: Rain drip

Regulatory Compliance

- ❖ Safety: CE
- ❖ EMC: FCC Part 15 Class A, CE

Internal Options

- ❖ 56Kbps V.90 Modem, via RJ-11 connector
- ❖ GSM Telephone module and antenna
- ❖ 900MHz RIM radio module with antenna
- ❖ CDPD module
- ❖ GPS
- ❖ Ethernet
- ❖ Industry Standard Compact Flash Card

Other Options

- ❖ Carry case
- ❖ Keyboard/Port Replicator
- ❖ Vehicle docking cradle with various mounting options