

# FW950 **HANDHELD COMPUTER**

Ultra-Rugged for the Harshest Environments

## APPLICATIONS

- Meter Reading
- Parking Enforcement
- Route Accounting
- Transportation
- Logistics
- Inspection and Maintenance

## FEATURES

- High strength solvent resistant case enclosure (Xenoy)
- 3 level shock absorption system
- Microsoft® Windows® CE 5.0
- Marvell PXA270, 520MHz processor
- Waterproof and submersible - exceeds IP67
- Drop rated at 5 feet (1.5m) onto concrete
- Temperature -4° to 140°F (-20° to 60°C)
- MIL-STD-810F
- ITAR registered manufacturing facility
- Industrial grade components for robust high and low temperature operations
- Suspended rail technology to ensure circuit boards are protected
- Embedded Bluetooth® and WiFi enabled
- 128 MB RAM 512 MB flash drive
- Custom keyboard options
- Lithium battery 2400 mA



- **Designed for harsh outdoor environments**
- **Waterproof**
- **Easy to use and reliable**
- **Long battery life**

Designed to stand up to the harshest and most extreme environments, the FW950 features the industry's top drop and shock specification, rain and dust sealing and operating temperature range making it the ideal mobile solution for today's front-line field worker.

Based on the popular Windows® CE 5.0 and high performance Intel XScale® architecture, the FW950 offers the use of standard based software and hardware components combined with simplified custom application development.

Options include UHF and LF RFID, 3G/GPRS/GSM cellular technologies, GPS, imaging and 1D/2D bar code scanning, thermal integrated printer (3 inch), dual battery 2400 mAh (4800mAh).

## Product Specifications

### Operating System

Windows® CE 5.0

### Processor

Marvell XScale PXA270  
520 Mhz capable

### Display

QVGA, portrait, transfective, 65k color industrial-grade, 3.5" (89mm) touch screen, 240 x 320, transmissive 160 nits, contrast ratio 85:1 transmissive, 15:1 reflective, backlight system: LED

### Memory

128 MB RAM with 512 MB flash memory

### Physical

Dimensions: 8.7" x 3.4" x 2.0"  
(220 mm x 86 mm x 50 mm)  
Weight: 24 ounces (680g)

### Case

Manufactured using 'Xenoy' making the unit chemical resistant, impact resistant, heat resistant, and tough even at low temperatures

Rubberized over-molded resilient end caps and multi level shock absorption construction

### Keypad

Customizable  
Flat (membrane) or raised with alpha- numerics  
24, 40 and 48 key varieties  
LED backlight  
LED for battery charge status indication

### Environment

Operating Temp: -4° F to +140° F  
(-20° C to +60° C)  
Storage Temp: -40° F to +158° F  
(-40° C to +70° C)  
Sand, dust and water: IP67  
Drop: Concrete drop test - 5 feet/1.5 meters  
Vibration: MIL-STD-810F

### I/O Ports

Ethernet  
USB host (Used for Modems, RFID readers, AMR radio)  
USB client (Used for Active Sync)  
Optional external RS232 serial port  
IPP port – parallel port and TTL port (Used for FWP30 thermal printer)  
Expansion module: Two 16bit Type I, one Type2 PCMCIA, or compact flash with adapter  
Expansion module: Internal USB and TTL port for customized expansion

### Integrated Wireless

Bluetooth™ 2.1  
802.11 b/g wireless (WEP, WPA and WPA2 security protocols)

### Optional Wireless

GPRS/3G/GSM/HSDPA  
GPS  
RFID  
AMR radio receiver

### Certification

Certifications: FCC Class B, CSA, UL, CE

### Battery Capacity

Lithium-Ion rechargeable battery pack (2400mAh)  
Dual lithium-ion power option (4800mAh)

### Loader/Chargers

FW-HL, single bay (Ethernet, USB host and client)  
FW-EL, six-bay (Ethernet only)  
Certification: FCC Class B, CSA, UL, CE  
Voltage: 110-240V  
Frequency: 50-60 Hz  
Operating Temp: +32° F to +75° F  
(0° C to +24° C)  
Storage Temp: +14° F to +158° F  
(-10° C to +70° C)

### Optional Integrated Peripherals

Thermal printer (FWP-30)  
Laser scanner (FWL-20) 1D bar code reader  
Imager (FWC-20) 2D bar code reader

### Accessories

Carrying cases  
Vehicle chargers  
Cables and meter probes

