

# 7535 Hand-held Computer



## The 'Hot' New Benchmark in Hand-Held Computing

When clients talk, we listen. That's how we built the 7535. Engineered to meet the performance and durability requirements for data collection in the harshest of environments yet ergonomically crafted with the user in mind, the 7535 delivers on all fronts. Psion Teklogix has set the benchmark by building **(F)lexibility, (I)ntegration, (R)uggedness, and (E)rgonomics (FIRE)** into one device. Based on industry standards, and backwards compatible with the 7035, the 7535 is ideally suited to meet your mobile data collection and supply chain information needs, not only for today but also well into the future.

### Utmost in **(F)lexibility**

Use of flexible technologies ensures clients receive the right product for the right application.

- **Multiple Scanner Options:**  
1D & 2D scan engines with available Fuzzy logic  
CMOS Imager  
Combo laser/RFID
- **Multiple Radio Options and Available High Performance Internal Antenna that increases range by approximately 30%**
- **Multiple ¼VGA Display Options:**  
Mono / Mono - Touch / Color - Touch
- **5-Wire Touch Screen Display Option:**  
Available for "high touch" applications such as signature capture  
Touch durability is 10 times greater than traditional 4-Wire touch screen  
Scratch proof and break resistant hardened glass
- **Multiple Keyboard Options:**  
36 large key / 58 alpha key

### Ease of **(I)ntegration**

Standards based design delivers ease of integration into existing infrastructure.

- **Windows CE.Net operating system:**  
Ensures ease of application integration  
Ability to utilize existing drivers/APIs etc.
- **Standards based expansion card slots:**  
SD card slot for memory or radios  
Compact Flash slot for memory or radios
- **Integration compatibility:**  
Backwards compatible to 7035  
TekTerm runs on the 7535 with no change in appearance or operation
- **Standards based radio technologies**  
802.11b (g, a in future)  
Bluetooth  
Compact Flash GSM/GPRS (by year-end 2003)



### Exceptional **(R)uggedness**

Our rugged computer delivers overall system uptime even in the harshest environments.

- **Single Piece Molded Plastic Construction:**  
IP65 rating - sealed against dust & low pressure jets of water  
Engineered to withstand 1.5m (5') drop to polished concrete, 26 times. Plus, 2m (6.5') drop to polished concrete, 6 times.  
-10°C to 50°C (14°F to 122°F) operating temperature range to address various environments  
Designed to withstand forklift shock and vibration  
Waterproof connector - IP68
- **Backlight has Solid State Design:**  
LED, no tubes to break and reduced power consumption
- **Hard Cap Keys:**  
Rated for 1 million cycles with improved tactile feel

### Outstanding **(E)rgonomics**

Exceptional ergonomics ensure comfortable usage for a full shift.

- **Scientifically Engineered with input from leading ergonomic consultants:**  
Ideally balanced 700g (24.7oz) weight (with radio and scanner) for full-day use  
Sunlight readable display  
Backlit keypad for easy viewing in low light  
Rubberized pistol grip ergonomically designed for day-long comfort



information in motion

# 7535 Hand-held Computer



7535 Front View

## Specifications

### processor and memory

- 400 MHz XScale PXA 255 Processor
- SDRAM: 64MB SDRAM (Future option 128MB)
- Flash ROM: 32MB FLASH

### operating system

- Windows CE.Net 4.x

### programming environment

- HTML, XML, CE.net SDK, Java, Visual C++
- Standard protocol APIs - Windows sockets (WinCE)

### wireless communications

- IEEE 802.11b 11Mbps 2.4 GHz Compact Flash radio
- Standard antenna integrated onto radio card
- Optional internal antenna (high performance)
- Bluetooth SD I/O radio 2.4 GHz (5m range)

### application software

- Internet Explorer for CE
- Open TekTerm
- ANSI, TESS terminal emulations
- IBM 3270, IBM 5250, HP 2392

### user interface

- Display:
  - ¼VGA portrait mode
  - Automatic backlight & contrast control
  - Sunlight readable (for outdoor use)
- Monochrome (standard):
  - 9.7cm (3.8") 240 x 320 graphic transfective FSTN LCD
  - Black-on-white with 64 greyscale
  - Hi-reliability white LED backlight (1.5 ft-L)
- Color (optional):
  - 8.9cm (3.5") 240 x 320 graphic
  - Transfective TFT
  - 256K displayable colors
  - White LED illumination
- Touchscreen options:
  - Monochrome or color
  - Available 5-Wire Touchscreen option for "high touch" applications - monochrome or color
  - Passive stylus or finger operation
  - Integral stylus holder
- Keyboards:
  - 2 ABCD formats available
  - standard 58 key alpha (6 Function Keys)
  - optional 36 large key (10 Function Keys)
  - EL keypad backlight
  - Ergonomic ambidextrous one-hand operation
  - Dedicated function keys
  - Hard-capped keys (rated at 1M+ cycles)
- Indicators & Controls:
  - Internal 95 dBA beeper with volume control
  - LEDs for radio transmit/receive, scanning, battery status, user applications

### size & weight

- 102mm (4") width x 62.5mm (2.5") depth x 244mm (9.6") length
- 75.5mm (3") width x 36mm (1.4") depth @ keypad area
- 21.7oz (650g) includes battery
- Pistol grip - add 125g (4.3oz)

### environmental

- Mono operating temp 0°C to +50°C (32°F to 122°F)
- Color operating temp: -10°C to +50°C (14°F to 122°F)
- Storage temp: -25°C to +60°C (-13°F to 140°F)
- Humidity: 5% - 95% RH non-condensing

- Rain/Dust: IEC 529, classification IP65
- Drop Rating: All versions except 5-Wire Touchscreen: 1.5m (5') drop to polished concrete, 26 times. Plus, 2m (6.5') drops to polished concrete, 6 times.
- 5-Wire Touchscreen: 1.5m (5') drops to concrete, multiple times
- Cradle shock: 30G in each axis
- Cradle vibration: 1.5G RMS PSD (4Hz-500Hz)

### power management

- 7.2V @ 1800mAh Li-ion rechargeable battery
- 10 hour battery operation (5 scans, transmit & receive/min)
- Smart Battery System Level 3 compliant
- Built-in gas gauge & performance monitor
- Quick swap battery packs
- Built-in fast charger (1.75 hour typical recharge)
- Self-guiding & latching battery pack design
- System backup (20 minutes) during battery swap
- 1 week real-time clock backup

### network management

- SNMP MIB 2 support
- Remote software download
- Remote WLAN management

### internal expansion slots

- One SD I/O (MultiMediaCard) slot with antenna cavity
- One Type II Compact Flash slot with antenna cavity

### external ports

- Tether port (optional) with:
  - one RS232 serial port (decoded scanner, printer)
  - undecoded scanner port
  - USB host port, power out
- Docking station port with:
  - one RS232 serial port including diagnostics
  - USB device port/USB host port, power in/out

### primary options

- Radios:
  - 802.11b, Bluetooth
  - Optional high performance internal antenna
- Scanners:
  - Internal 1D - standard, long range & advanced long-range
  - Internal 2D - standard
  - Internal CMOS image capture scan engine
  - RFID - combo laser scanner / RFID engine
  - Internal standard-range fuzzy logic scan engine

### approvals

- Safety: UL 1950, CSA C22.2 No950, LVD EN60950
- EMC: FCC Part 15 Class B, EMC Directive Class B
- Laser: IEC 825-1 Class 2 (EN60825-1), 21CFR1040 Class II

### accessories

- Battery
- Wall adapter
- Tether adapter cables
- Hand strap
- Wrist strap
- Belt clip
- Touch screen protective cover
- 6-unit Gang charger
- Cigarette lighter adaptor
- Portable docking module
- Shoulder strap
- Holster
- Stylus

### available before year-end 2003:

- Combo dock
- Combo charger
- Non-powered cradle
- GSM/GPRS via Compact Flash
- Cradle port replicator
- Powered cradle
- Vinyl carrying case
- Belt Loop

\* specifications are subject to change without notice



7535 3/4 View



7535 Rear View