



FC300

Ultra-Rugged Handheld Computer

In today's rapidly evolving utility landscape, energy and water providers need reliable, proven technology that helps them operate as efficiently as possible. Itron's latest handheld computer—designed specifically for the utility industry—helps them do exactly that. Built from the ground up and backed by Itron's 30 years of handheld experience, the Field Collector 300 (FC300) handheld computer offers fast and efficient production from the field with state-of-the-art mobile processing power. Able to withstand the rigors of continuous field work, the FC300 is built to military specifications for ultra-ruggedness. Communications flexibility is built into the FC300 by integrating multiple wireless communication technologies or fast ethernet. GPS and an imager/barcode reader are additional features that set the FC300 apart.

When looking for a handheld computer that excels at maintenance and reading of all electric, gas and water meters as well as other tasks, the FC300 is truly an all-in-one utility automation tool.

SPECIFICATIONS

Operating System

- » Windows CE 5.0 Professional
- » Non-volatile storage of resident drivers, applications and settings

Processor

- » Marvel PXA320 @ 800 MHz

Memory

- » SD card expansion slot, 1 GB, standard
- » 128 MB SDRAM
- » 128 MB Flash

Display

- » 3.7" (93.98 mm) color QVGA
- » ¼ VGA 320 X 240 pixel LCD Color TFT capable of 16-bit color (65,536 colors)
- » Outdoor readable, transfective

Touchscreen

- » Resistive touchscreen allows the use of finger or passive stylus (included)

Keypad

- » Backlit 51 key alphanumeric keypad, including navigation keys
- » Large primary numeric keys GPS
- » Built-in GPS receiver (optional)

Integrated SRead Radio

(order option for North America)

- » 16 MHz wide receiver for receiving Itron ERTs and meters with RF technology

ERGONOMIC AND SAFETY FEATURES

- » Comfortable to hold and use because of light weight, compact design and rubberized overmold
- » Reduces fatigue by utilizing wide hand strap, shoulder strap or holster
- » Flexible for right or left handed work with its balanced design
- » Ease-of-use, even with gloves, made possible with large primary keys
- » Commonly used functions can be assigned to multiple keys located around the keyboard to help prevent repetitive motion injuries
- » Alternate methods of data entry between keypad and touch screen & tethered stylus to help prevent repetitive motion injuries
- » Clear-viewing display screen in all lighting conditions reducing eye strain
- » Built-in flashlight for quick illumination of dark spaces

- » Advanced interference rejection technology for noisy RF environments
- » 80 channel receiver for improved reading performance

Integrated RF Master 433 RADIANT Radio

(order option for Europe and Australia)

- » RADIANT protocol compatible
- » 433.82 MHz receiver for receiving Itron RADIANT ERTs and meters with RF Technology, Modulation: FSK
- » ERP ≤ 10mW

Flashlight

- » Built-in LED flashlight located at the top of the handheld

Interfaces

- » USB host and client port
- » Serial port (Hirose connector for probing)
- » Powered RS-232 port
- » 10/100 Ethernet port

Batteries

- » Lithium Ion rechargeable battery pack (2500 mAh)
- » Internal clock backup battery (5 year life)
- » Standard internal backup battery enables hot swap of main battery
- » Full shift life with typical usage
- » Fast recovery backup power for data retention
- » Main battery low warning
- » Action power management (configurable)

Audio

- » Integrated speaker with adjustable volume control
- » Built-in microphone

Integrated Wireless Data Communications

- » GSM/GPRS wireless WAN (optional)
- » 802.11b/g wireless LAN (optional)
- » Bluetooth 2.0 + EDR Class 2 Radio (special order)

Feedback and Status Indicators

- » Built-in vibration device for warning notifications
- » Large system status LEDs and power status LEDs

Imager/Barcode Scanner

(order option)

- » Built-in imager for linear and 2D barcode scanning
- » Monochrome imager for image capture

Case

- » Impact resistant plastic case
- » Rubberized over mold on all impact areas for added protection

Dimensions

- » Length: 9.94”(25.2cm)
- » Width: 3.86”(9.8cm)
- » Depth: 2.79”(7.1cm)

Weight

- » FC300 (base configuration): 31 oz (879 g) including batteries

Docking Stations

- » Single desk dock (ethernet, USB client, USB Host and serial connectivity, additional spare battery charger)
- » Multi-dock (5 unit)- ethernet connection only (daisy chain capability)
- » Vehicle dock - I/O connectors
- » Vehicle power charging adapter

- » Carry case for FC300 with SRead radio
- » Carry case for FC300 without SRead radio
- » Holster for FC300 with storage for optical probe

Environmental

- » Shock resistance exceeds Mil. Std. 810F
- » Vibration immunity to Mil. Std. 810F
- » Sealing for dust and water - IP 67 (with and without battery installed)
- » Standard Operation: -4°F to +140°F (-20°C to +60°C)
- » Storage: -40°F to +158°F (-40°C to + 70°C)
- » Humidity: 5 to 95% non-condensing
- » Drop: 6 feet (1829 mm) to concrete
- » Tumble: 2000 1m tumble test
- » Immunity: (EMC) EN 55204:1998
- » Emissions: (EMI) FCC Part 15, Subpart B, Class A; EN 55022, Class A (CISPR 22)
- » Safety: UL 60950-1, CSA C22.2 No. 60950-1, EN 60950, IEC 60950
- » Laser safety: 21 CFR 1040.10, IEC 60825-1
- » Battery safety: UL 2054, IEEE 1725
- » Radio: FCC Part 15 supart C, IC RSS210, 102, EN 300 328, China SRRC, Singapore IDA, Malaysia SIRIM
- » Radio safety: FCC O.E.T. Bulletin 65 Industry Canada RSS 102, EN 50360

Warranty

- » 1 year comprehensive warranty
- » Annual maintenance program available



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