functionality profile

G5 Handheld Computer

The Itron G5 computer raises the bar for handheld meter reading to an entirely new level. The G5 delivers meter reading power and performance that belies its small size, light weight and ergonomic shape. Simply put, the G5 is the most advanced and powerful handheld meter reading computer Itron has ever built.

The G5 brings together the latest handheld component technology and functionality to provide a rugged platform and feature-rich architecture for today's most demanding meter reading operations. With a 33 MHz 486 processor, 8 megabytes of DRAM, and another 8 megabytes of non-volatile compact Flash memory, the G5 delivers better-than-ever meter reading performance and processing speed in a smaller-than-ever package.

When it comes to battery life, the G5 is downright stingy. A new power management system enables the G5 to achieve unprecedented system integration and functionality in a smaller, lighter and less power-hungry box. The G5 power management system chooses from several processor modes — including low speed, high speed, doze mode, suspend mode and critical mode — allowing for finite power management. This flexibility greatly improves the performance and battery life of the G5, enabling the operator to read more meters for a longer period without having to recharge the battery.

The G5 features a powerful full-duplex radio, with the ability to transmit and receive signals simultaneously. This enables robust meter reading performance in the toughest of environments. Once the data is collected, it's secure. The G5's Compact Flash technology provides a non-volatile memory medium for storage of DOS, device drivers, applications, and all critical files. The Compact Flash memory enables the unit to retain critical data indefinitely without a power source.

While setting a new standard for meter reading performance, the G5 also sets a new standard for handheld ergonomics. The lightweight, yet rugged, design provides comfortable and reliable use for long days of meter reading in all environmental conditions. The LCD display incorporates the latest technology to provide incomparable clarity and contrast in a handheld computer. Itron also provides a full suite of peripheral products to support the G5.

G5
handheld computer

specifications

Functional

Integrated CPU
> SC400 Elan 486
> 33 MHz
> Full PC compatibility

Operating system
> IBM's PC DOS 2000
> General Software Bios 4.0

Memory
> 8 MB of DRAM
> Disk drive space on 8 M Compact Flash card

Screen
> 30 characters x 18 lines
> Backlight
> Temperature compensated contrast control

Keyboard
> 40 application definable keys
> Flat membrane keyboard
> Field-replaceable keyboard templates

Serial port communication
> Two configurable options for COM 1
  - Side port Hirose Connector with 5 V
  - Serial communication through cradle

Power system
> Intelligent lithium-ion
> Lithium coin clock battery (CMOS backup)
> 8 to 12-hour battery life (dual battery pack)
> 5-6 hour battery charge time

Physical
> Size:
  - Length: 8.8" (225 mm)
  - Width: 3" (77 mm) hand grip
  - Depth: 2.5" (63 mm) maximum
> Weight: 26 oz. (733 g) with battery and radio
> Ergonomic design
> Meets or exceeds MIL-STD-810E for drop, humidity, rain, shock, dust, vibration and altitude

Certification/Compliance
> FCC Part 15, Class B
> EN 55022, Class B

Designed for Utilities
Because a meter reader's keystrokes are 99 percent numeric entry, the G5 meter reading application features an ergonomically designed numeric 10-key keypad in an easy-to-use location.

System Components

Interconnect cable

Interconnect board

POD

G5 POD

Itron's G5 POD is a compact, affordable communications cradle and battery charger.

As an advanced cradle unit, the POD is lightweight and versatile with enhanced charging capabilities. With the POD, a battery pack can be charged individually while installed in the G5 unit, or a combination of an individual battery pack and a G5 unit can be charged simultaneously.

Other features include:
> Connection of multiple G5 PODs via inter-connect power board three per power supply
> Simultaneous communications and charging of battery in G5 handheld
> 5-6 hour battery charging time
> High-contrast LED indicator lights for operational modes

For more cradle configuration and installation information, order the G5 POD Quick Reference Guide (part number MAN-0005-001).

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