



# MC3

## Mobile Collection System

MC3 represents the next generation in drive-by data collection and command and control capabilities from Itron ChoiceConnect™ advanced metering solutions. Its performance and portability combines meter reading with GPS enhancements, two-way communications and backward compatibility. The MC3 provides improvements in a utility's operational efficiencies, regardless of the type or size of their service; streamlining business processes and reducing costs associated with meter reading operations and service delivery, all while enabling improved customer service.

Powered by Itron SRead™ radio technology, the MC3 can handle everything from monthly consumption reads to the collection of interval data and performing other two-way communications to the meter and other devices such as service control valves. The MC3 eliminates the need for a dedicated meter reading vehicle by being small enough to easily transfer among drivers as necessary.

### FEATURES

Whether it's electric, gas or water, the MC3 offers multi-function capabilities in an easy to use solution.

- » Collect gas, water and electric interval meter data

- » Two-way radio communications for service disconnect
- » Exceptional meter reading performance in small size
- » Wired or wireless network connectivity for route load/unload
- » Simultaneous reading capability for multiple routes
- » Reads both "bubble-up" and "wake-up" endpoints
- » GPS Mapping for reduced drive times
- » Out-of-route read collection to reduce special read visits

### FUNCTIONALITY PROFILE

MC3 has the capacity to collect up to 100,000 readings a day in a single route or multiple routes being read simultaneously. The potential savings are substantial when compared to the few hundred meters read per day by a typical walk-by system. The MC3 can also collect out-of-route readings used to fulfill off-cycle reading requests without dispatching a technician.

Itron SRead radio technology offers increased read sensitivity and simultaneously listens over 80 channels to improve route reading times and range. An additional antenna configuration can be used for added read performance. The MC3 radio has demonstrated the ability to read up to 10,000 ERTs per minute.

## GPS Mapping

A built-in GPS and on-board mapping software allow a user to see where the vehicle is in relation to the ERT modules and meters. Various icons indicate what has been read and what hasn't in addition to those accounts that take priority or have other special operations associated with them. A night-time and playback feature are also included.

## Advanced Metering and Telemetry for Gas, Water and Electric

The MC3 supports a variety of Advanced AMI commands that work with Itron ERT and Telemetry modules and meters that enable the following types of RF operation:

- » Extract up to 40 days of hourly interval data from 100G and 100W Datalogging ERT Modules, and CENTRON Bridge Meters
- » Remote Disconnect for Gas, Water and Electric services
- » Real Time Demand reset on CENTRON Bridge meters
- » Gather telemetry data from 100T modules
- » Move in/move out reads for a specific date
- » Daily data for customer service and billing disputes
- » Monthly gas balancing reads
- » Data to facilitate load studies and conservation programs
- » Data to support mid-cycle rate changes

## SPECIFICATIONS

### Transmitter/Receiver Characteristics

- » Legacy Wake-up Transmitter: 952 or 956 MHz Licensed Frequency
- » Receiver: 908–924 MHz (ISM Band)
- » Two-way command Transmitter: 908–924 MHz (ISM Band)
- » Output power: 6.5 Watts peak
- » Data integrity: Verified in every message

## Regulatory Information

- » FCC compliance: Part 101
- » Industry Canada: 864A-DCU-5310

## Power

- » Power supply: 12Volts DC vehicle power supply
- » Power consumption: 5 Amps maximum

## Laptop Computer (Optional)

- » Fully rugged computer: Panasonic Toughbook CF-31
- » Processor: 2.6 GHz Intel® Core™ i5-3320M processor
- » Disk Space: 500GB
- » Memory: 4GB SDRAM
- » Display: 13.3" 1024x768 XGA LCD touchscreen (2-1100 nit sunlight-viewable)
- » Interface: 3x USB 2.0, 1x USB 3.0, Type II PC Card slot, SDXC card
- » Operating System: Genuine Windows® 7
- » Network: 10/100/1000 Ethernet, Intel Wi-Fi a/b/g/n, (Broadband Gobi optional)

## Mounting and Wiring Options

- » Wiring Options
  - Permanent – Permanent wiring includes a through the roof antenna base and a fuse block power cable
  - Portable – Portable wiring includes a magnetic mount antenna base and a cigarette lighter power cable
- » Mounting Options
  - Sled Mount – The Panasonic Toughbook vehicle dock comes attached to a sled that can be easily and safely installed on any seat in the vehicle.
  - Pedestal Mount – The Panasonic Toughbook comes with a vehicle dock that can be attached to a pedestal that is installed in the vehicle. Note the pedestal is not included.

## Environmental

- » Operating temperature: -4°F to +122°F (-20°C to +50°C)
- » Storage temperature: -40°F to +160°F (-40°C to +71°C)
- » Humidity limits: 5 to 95% non-condensing relative humidity

## Endpoint Compatibility

- » All legacy Itron ERT® modules
- » 40GB gas ERT modules
- » 100G gas ERT modules
- » 60W water ERT modules
- » 100W water ERT modules
- » Itron CENTRON® Bridge electricity meters
- » Itron CENTRON electricity meters equipped with R300 or R400 modules
- » Itron CENTRON Polyphase electricity meters equipped with R300 or R400 modules
- » Itron SENTINEL® electricity meters equipped with R300 modules

## Physical Dimensions

- » MC3 Radio: 13"W x 11.25"L X 2.75"H
- » Sled: 13"W X 19"L X 9.5"H
- » CF-31 Laptop: 11.9"W X 11.5"L X 2.9"H

## Weight

- » MC3 Radio: 10 lbs
- » Sled: 13.2 lbs
- » CF-31 Laptop: 8.2 lbs

MC3 comes complete with MC3 Radio, Mobile Collection software, mounting and wiring hardware, documentation and an optional Panasonic Toughbook CF-31 laptop.

## Host Processing Software

MC3 is compatible with all versions of Itron meter reading applications including Field Collection System and MV-RS®. Some features not supported with all host processing software.



Itron is a global technology company. We build solutions that help utilities measure, manage and analyze energy and water. Our broad product portfolio includes electricity, gas, water and thermal energy measurement and control technology; communications systems; software; and professional services. With thousands of employees supporting nearly 8,000 utilities in more than 100 countries, Itron empowers utilities to responsibly and efficiently manage energy and water resources.

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