

Mobile Collection System MC3



System Overview

MC3 represents the next generation in drive-by data collection for Itron ChoiceConnect™ wireless automated meter reading (AMR) solutions. Its combination of performance, portability and affordability provide for improvements to a utility's infrastructure, regardless of the type or size of their service. MC3 helps a utility to maximize efficiency and reduce costs associated with meter reading operations while still allowing for superb customer service.

Powered by Itron SRead™ radio technology, the MC3 offers unparalleled drive-by meter reading performance, yet is small enough to fit in any vehicle and can be easily transferred between vehicles, eliminating the need for an automobile dedicated to meter reading. The MC3 is read performance, accuracy and ease-of-use - all in one cost-effective solution.

Never before has such robust meter reading performance been contained in such a convenient and affordable package.

Functionality

MC3 can 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. This new technology can be equipped with an optional antenna configuration for added read performance if desired. The MC3 radio has demonstrated the ability to read up to 10,000 ERTs per minute.

GPS Mapping

Equipped with GPS mapping, MC3 allows the meter reader to visually confirm which meters have been read and which have not, or if any have a special priority on any given route. This powerful feature minimizes missed reads and consecutive estimates while reducing drive times. The mapping view also includes a special display setting that provides better viewing when operating at night. Once the route has been completed and the meter reader has returned to the office, the mobile administrator can "play back" the route and identify opportunities to improve meter reading reliability thus reducing drive time and fuel consumption.

Features

- Exceptional meter reading performance in small size
- Short-range wireless capability for route upload/download
- Simultaneous multiple route-reading capability
- Reads both "bubble-up" and "wake-up" endpoints
- GPS Mapping for reduced drive times and missed reads
- Out-of-route read collection to reduce special read visits

Operating frequency

Transmitter	952 or 956 MHz
Receiver operating frequency	915 ISM Band
Output power	4 Watts peak
Data integrity	Verified in every message

Functional

Power supply	12 V DC vehicle power supply
Power consumption	5 Amps maximum
FCC compliance	Part 101
NoteBook computer	General Dynamics GoBook XR-1™
Processor	1.83GHz Intel® Core™ Duo Processor; FSB 667MHz, 2MB L2 Cache
Disk space	80GB
Memory	512MB DDRII DRAM
Display	Touch sensitive 12.1" RFT ColorVue™ Display
I/O Interface	3x USB 2.0, RJ-45, Type II PC card slot
Operating system	Windows® XP operating system SP2

Radio

Antenna	Single, integrated, magnetic or permanent roof mount, omnidirectional
Optional antenna	Side looking magnetic mounting antenna con- figuration for tough reading environments
Mounting	Radio mounts to the passenger seat. Laptop mounts on vehicle sled in passenger seat (3rd party mounting solution needed for pedestal mount)
Endpoint compatibility	50W water ERT modules 60W water ERT modules Mobile Collector v 3.0 software (MC3 and Mobile Collector 2.5 hardware) supports advanced TOU and two-way demand reset AMR with EkaNet™ technology

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

Physical

Radio dock dimensions	9" high x 5.5" wide x 4" deep
Sled	13" W x 19" L x 9.5" H
XR-1 laptop	11.8" L x 9.65" W x 1.98" H

Weight

Sled	13.2 lbs
MC3 radio	10 lbs.
General Dynamics GoBook XR-1	6.8 lbs

The MC3 comes complete with MC3 radio, Mobile Collection software, GoBook XR-1 laptop, mounting hardware, integrated antenna and technical manuals.

Host processing software

MC3 is compatible with all versions of Itron meter reading applications including Integrator, Field Collection System, MV-RS® and Premierplus4.

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