

MC3

Small Market Edition

Introduction

For today's budget-minded utilities, collecting meter reads in the most cost-effective manner is a top-of-mind priority. Fortunately, with proven Itron technology, mobile data collection has never been more affordable. The Mobile Collector 3 Small Market Edition, designed for smaller utilities, is an entry-level automated meter reading (AMR) solution, built upon Itron's leading experience in mobile data collection technologies.

The MC3 Small Market Edition increases a utility's operational efficiencies by reducing costs associated with collecting meter data and by eliminating the need to access a premise to obtain meter reads. Highly accurate interval meter data from the MC3 Small Market Edition facilitates faster bill reconciliations, leading to enhanced levels of customer service with greater customer confidence in their bills.

The MC3 Small Market Edition is compatible with all Itron ChoiceConnect™ wireless AMR solutions and is capable of collecting monthly consumption reads or interval (datalogging) reads. As a complete solution, it features Itron's SRead™ radio, laptop computer and cabling. Small enough to fit in any vehicle and easily transferred between vehicles, the MC3 Small Market Edition is a simple and low-cost mobile collection solution for water, gas and electric utilities looking for meter reading performance and accuracy.

Features

The Small Market Edition of the MC3 family is feature-rich, and embraces the level of performance synonymous with the Itron name:

- > Convenient, portable and affordable package
- > Superior wireless performance with SRead radio technology
- > Improved productivity and safety of field staff
- > Read multiple routes simultaneously
- > Reduce drive times and missed reads with GPS mapping
- > Collect out-of-route reads for increased efficiencies
- > Out of box compatibility with MV-RS
- > Support datalogging of 100G and 100W ERT® modules without exiting the vehicle

Functionality Profile

The external SRead radio technology offers unparalleled read sensitivity and simultaneously listens over 80 channels to improve route reading times and efficiency. MC3 Small Market Edition collects standard consumption and tamper data from water, gas and electric endpoints. Datalogging information can be collected from Itron's ChoiceConnect 100G and 100W endpoints. MC3 Small Market Edition is targeted to customers who don't necessarily need support for legacy endpoints.

A single MC3 Small Market Edition can cover a wide service territory in a single day, collecting up to 32,000 readings across a single route (when using MV-RS® as the head end) or multiple routes read simultaneously. Meter readers can collect reads at normal city driving speeds (average 30 MPH). Compared with a typical walk-by collection system that acquires several hundred reads per day, the savings offered by the MC3 Small Market Edition are substantial.

GPS Mapping

The GPS mapping feature of the MC3 Small Market Edition displays a map with icons on the system laptop, allowing meter readers to visually confirm which meters have been read and which have not, or if any have a special priority on any given route. This helps minimize missed reads and consecutive estimates while reducing drive times. A special display setting provides better viewing when operating at night and a play-back feature of the driven route identifies opportunities to improve the meter reading reliability and reduce future drive times and fuel consumption.

Advanced Data Collection for Water and Gas Metering

With the MC3 Small Market Edition, gas and water utilities can wirelessly collect up to 40 days of hourly or 40 days of daily data from the 100W and 100G Datalogging ERTs. This datalogging capability provides advanced metering functionality for mobile customers with access to:

- > Reads for a specific date to facilitate move in/move outs
- > Daily meter data for customer service and billing disputes
- > Hourly data to facilitate load studies and conservation programs
- > Data to support mid-cycle rate changes
- > Data for meter right sizing programs
- > Monthly gas balancing reads



Specifications

Operating Frequency

- > Receiver operating frequency: 908–924 ISM Band
- > ISM transmit power: 1 Watt
- > Data integrity: Verified in every message

Regulatory

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

Functional

- > Power supply: 12V DC vehicle power
- > Power consumption: 5 Amps maximum
- > Operating system: Genuine Windows® 7
- > MC3 Small Market Edition comes complete with MC3 Radio, laptop computer and wiring
- > Docking solutions and hardened shipping cases sold separately

Mounting and Wiring Options

- > Portable wiring includes a magnetic mount antenna base, accessory outlet power cable for the RF unit and accessory outlet DC power supply for the laptop computer
- > Permanent wiring includes a through-the-roof antenna, battery pigtail and power cable for the RF unit and accessory outlet DC power supply for the laptop computer
- > Itron does not supply a mounting system for the laptop computer. Customer must properly install and secure all equipment prior to use

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
- > 40G gas ERT modules
- > 100G gas ERT modules
- > 60W water ERT modules
- > 80Wi water ERT Modules
- > 100W water ERT modules
- > Itron CENTRON® with R300 modules
- > Itron CENTRON Polyphase with R300 modules
- > Itron SENTINEL® with R300 modules

Physical Dimensions

- > MC3 Radio: 13"W x 11.25"L x 2.75"H
- > Laptop Toughbook CF-52:
11.3"W x 14.0"L x 2.0"H

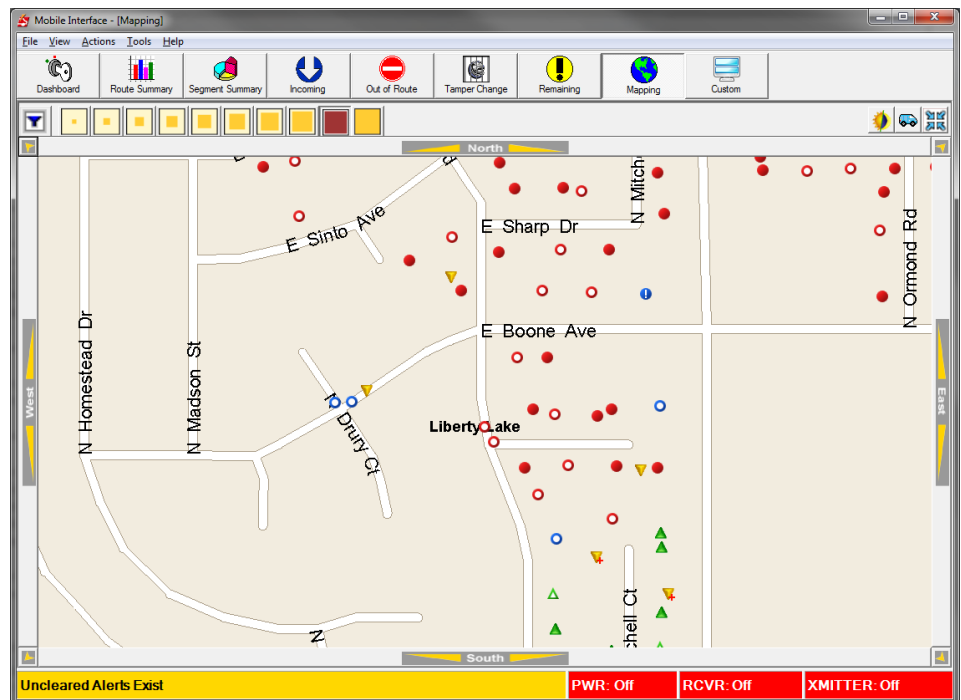
Weight

- > MC3 Radio: 10 lbs
- > Laptop: 7.5 lbs

Host Processing Software

MC3 Small Market Edition is compatible with Itron meter reading application MV-RS 8.2 and later.

> GPS Mapping



About Itron Inc.

At Itron, we're dedicated to delivering end-to-end smart grid and smart distribution solutions to electric, gas and water utilities around the globe. Our company is the world's leading provider of smart metering, data collection and utility software systems, with nearly 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water. Our offerings include electricity, gas, water and heat meters; network communication technology; collection systems and related software applications; and professional services. To realize your smarter energy and water future, start here: www.itron.com



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