



MC3Lite

Mobile Collection System

MC3Lite represents the next generation in drive-by data collection and command and control capabilities from Itron. Its performance and portability combines GPS mapping with drive-by meter reading, two-way wireless radio communications and backward compatibility. The MC3Lite 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, enhanced customer service and improved employee safety.

INTRODUCTION

Powered by Itron SRead™ radio technology, the MC3Lite can handle everything from basic consumption reads to the collection of interval data and performing other two-way communications to gas, water and electricity meters, sensors and other devices such as service control valves and switches. The MC3Lite eliminates the need for a dedicated vehicle by being small enough to easily transfer among drivers as necessary.

FEATURES

Whether it's gas, water, electricity or telemetry, the MC3Lite offers multi-function capabilities in an easy-to-use solution.

- » Collect gas, water and electricity interval data
- » Read both “bubble-up” and “wake-up” endpoints
- » Two-way radio communications for remote service dis/connect

- » Simultaneous reading capability for multiple routes
- » GPS mapping for reduced drive times
- » Out-of-route read collection to reduce special read visits
- » Exceptional meter reading performance in a small size
- » Wired or wireless data transfer through windows tablet using any Internet connection

FUNCTIONALITY PROFILE

MC3Lite has the capacity to process up to 30,000 meter read requests in one or many routes and store up to 30,000 in route readings. The potential savings are substantial when compared to the few hundred meters read per day by a typical walk-by employee. The MC3Lite can also collect up to 30,000 out-of-route readings

per day used to fulfill off-cycle reading requests without dispatching a technician. Itron SRead radio technology offers increased read sensitivity, simultaneously listens to over 80 channels and can conduct up to 50 two-way communications simultaneously all to improve range and route processing times.

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 the completion status of each endpoint in addition to those accounts that take priority or require other special operations such as remote disconnect. Off-line maps are used for driving and when the computer is connected to the Internet, a satellite view is available.

Advanced Metering and Telemetry for Gas, Water and Electricity

The MC3Lite supports a variety of advanced AMR commands that work with Itron ERTs, meters and sensors.

- » Extract 40 days of daily or hourly interval data from advanced gas and water endpoints
- » Extract 40 days of daily, hourly or 15-minute interval data from CENTRON® Bridge meters
- » Perform real-time demand reset and extract TOU data from CENTRON Bridge meters
- » Remote disconnect for gas, water and electricity services
- » Collect leak data from water endpoints equipped with acoustic leak sensors
- » Fulfill special read requests such as move-ins and move-outs
- » 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: 952-959.85 or 952-953 MHz Licensed Frequency
- » Output power: 5.5Watts wake-up
- » Two-way command transceiver: 908-924 MHz (ISM Band)
- » Data integrity: verified in every message

Regulatory Information

- » FCC ID: EO9DCU53103
- » FCC compliance: Part 1,2,15 and 101
- » IC: 864A-DCU53103
- » ISED compliance: RSS 102, 119, 210, 247 and GEN

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% noncondensing relative humidity

Physical Dimensions

- » MC3Lite Radio: 13"W x 11.25"L x 2.75"H
- » Optional Panasonic 10" FZ-G1 tablet with sled: 13"W x 19"L x 9.5"H
- » Optional Panasonic 7" FZ-M1 tablet with dock: 8.3"W x 3.5"D x 7.5"H

Weight

- » MC3Lite Radio: 10 lbs
- » Sled: 13.2 lbs
- » Tablet choices under 3 lbs.

MC3Lite comes complete with MC3Lite radio, mounting and wiring hardware, and optionally with the Panasonic Toughpad tablet.

Tablet Computer (Optional)

- » Fully rugged computer: Panasonic Toughpad FZ-G1 or FZ-M1
- » Minimum Processor: 2.3 GHz Intel® Core™ m5-6Y57 vPro™ Processor
- » Solid State Disk space: 256GB (minimum)
- » Memory: 8GB SDRAM
- » Display: 7" WXGA 1280 x 800 (FZ-M1) or 10.1" WUXGA (FZ-G1) touchscreen
- » Interface: 1x USB 3.0
- » Operating System: Genuine Windows® 10 Professional
- » Network: 10/100/1000 Ethernet, with desk dock. Intel Wi-Fi 802.11a/b/g/n/ac

Power

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

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 Toughpad vehicle dock comes attached to a sled that can be easily and safely installed on any seat in the vehicle.
 - Pedestal Mount – The Panasonic Toughpad comes with a vehicle dock that can be attached to a pedestal that is installed in the vehicle (note: the pedestal is not included),e (note: the pedestal is not included).

Endpoint Compatibility

- » All legacy Itron ERT® modules
- » 40G / 40GB gas ERT modules
- » 100G gas ERT modules
- » 500G OpenWay Riva™ gas ERT modules in mobile mode
- » 60W water ERT modules
- » 100W water ERT modules
- » OpenWay Riva Water Module in mobile mode
- » CENTRON Bridge electricity meters in mobile mode
- » CENTRON Bridge Polyphase electricity meters in mobile mode
- » CENTRON electricity meters equipped with R300 or R400 modules
- » CENTRON Polyphase electricity meters equipped with R300 or R400 modules



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