


Memorandum

To: George Duncan, City Manager
Kimberly Simpson, Finance Director

From: Jason Thomas, Assistant City Manager 

CC: Rubin Armenta, Water Plant Superintendent

Date: 04/12/21

Re: Procurement of ITRON Upgrade for Meter Reading

The ITRON equipment that is used to read and collect water meter data will no longer be supported by the manufacturer after 12/31/21, and is therefore in need of being replaced. After soliciting quotes from multiple vendors, Staff discovered that Mountain States is the sole supplier in this region. ITRON provided a letter that Mountain States is the sole-source supplier in New Mexico. Therefore, Staff is requesting the sole-source award of this equipment to Mountain States for the replacement equipment. The quote from Mountain States along with the product data is attached. The total cost is \$21,545.00, and is available from fund 002-24-96117 (\$14,464 balance) and 002-20-92192 (\$38,208 balance).

Please let us know if we may proceed.

Attachments:

Mountain States Proposal
Product Data



Itron Corporation
2111 N Molter Road
Liberty Lake, Washington 99019

April 8, 2021
Ref: Mountain States
Pipe & Supply Authorized
Itron Distributor

Please accept this letter as verification that Mountain States Pipe and Supply is the sole source for Itron Water and Gas endpoints, including Itron Reading Solutions for the State of New Mexico.

Best Regards,

Craig Hendricks
Account Executive – West
Water and Public Power
Itron Inc



MOUNTAIN STATES PIPE & SUPPLY
 7765 Electronic Drive
 Colorado Springs CO 80922
 United States
 (719) 634-5555

Quotation

Estimate # EST5656
Date 1/26/2021
Acct. No. 200158
Expires 2/25/2021
Entered By: Jeff Smith
Sales Rep HOUSE COLO SPGS
Shipping Charges INB/ OUTB
Terms NET 30
Quote Reference

Bill To

CITY OF BLOOMFIELD
 915 N FIRST ST
 PO BOX 1839
 BLOOMFIELD NM 87413
 United States

Ship To

CITY OF BLOOMFIELD
 406 E BLANCO
 ATTN RUBIN ARMENTA
 BLOOMFIELD NM 87413
 United States

Line#	Item	Description	Qty	U/M	Price/ Ea	Amount
1	IMA-SETUP-FEE	IMA Cloud Tenant Set Up	1	EA	250.00	250.00
2	IMA D-GG-SUB-ED	IMA DRIVEBY, 2501-5000 ENDPOINTS, ANNUAL SUBSCRIPTION	1	EA	1,200.00	1,200.00
3	MC3Lite-10" Tablet	DCU-5310-301: MC3Lite RF Unit Premium Accessory Kit:DCU-5302-031 Tablet: OEM-1083-010 FZ-G1 10" Ship Kit: KIT-0060-101 Portable Wiring Kit Dock Mount: CFG-0175-101 Sled Mounted Tablet Dock	1	EA	18,000.00	18,000.00
4		MC3LITE OPTION: RF UNIT CAN BE PURCHASED WITHOUT TABLET \$16000.00 CUSTOMER SUPPLIES LAPTOP OR TABLET FOR READING APP, DEVISE MUST HAVE A USB PORT...				
5	IMR-0902-001	Itron Mobile Radio 2 w/USB Cable and Charger	1	EA	2,095.00	2,095.00
6		Updated Estimate....				

Total \$21,545.00

All items subject to prior sale. Pricing valid for 30 days from quotation date unless noted otherwise. Estimate is based on information provided by customer, and is not guaranteed for accuracy of quantity or type. All items FOB: Origin, Freight Pre-Pay and Add to Invoice unless noted otherwise. All items subject to prior sale. Prices subject to change without notice.



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



Join us in creating a more **resourceful world**.
To learn more visit **itron.com**

CORPORATE HQ

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Itron Mobile Radio 2

Itron Mobile Radio 2 provides improved RF range and allows 40/50 Series Endpoint programming

The Itron Mobile Radio is an all-purpose, walk-by reader and programmer for use with Itron's smart meters and endpoint solutions. This lightweight, portable device utilizes Itron's proven SRead technology in a two-way 900 MHz radio for communicating with electric, gas, water and telemetry endpoints using Itron Mobile or Field Deployment Manager apps. The Itron Mobile Radio is designed to handle the rigors of a field environment, providing a reliable hardware platform for utility personnel. Additionally, the Itron Mobile Radio has been designed and tested to handle environmental elements and ensure integrity as it relates to dust, rain, shock and vibration conditions.

INTRODUCTION

Walk-by meter reading is performed with the Itron Mobile Radio using a Bluetooth Low Energy (BLE) or Bluetooth Classic connection to a smart phone or tablet. Communications are quick and easy. The Itron Mobile Radio supports Advanced AMR two-way commands with Itron endpoints for reading consumption, extracting datalogging messages and performing secured shutoff and reconnect operations.

Field activities such as endpoint installation, programming, field investigations, unlocking and resetting devices are also performed with the Itron Mobile Radio.

The Itron Mobile Radio, coupled with a Bluetooth-enabled laptop or tablet, streamlines field activities to help make field workers more productive and efficient in their daily tasks. This is an ideal solution for utilities who already utilize mobile computing solution equipment in the field, or for those with in-house operations (such as a meter shop) where the lightweight, easy-to-use Itron Mobile Radio is a practical fit.

DESIGNED FOR DEPENDABILITY

The Itron Mobile Radio uses an internal 2270 mAh lithium-ion rechargeable battery,

providing operating time in excess of 10 hours on a single charge (results may vary based upon usage and target endpoint types). The battery can be replaced if necessary. Recharging can be done with standard micro-USB charging cable (supplied) or commonly available micro-USB phone charger.

The Itron Mobile Radio features an integrated circuit that gauges battery life, capable of accurate battery information in the form of percent remaining life as reported to supported applications. Additionally, the power indicator (LED) lets the user know when the battery is low.

Advanced Metering and Telemetry for Gas, Water and Electricity*

The Itron Mobile Radio 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
- » Extract up to 480 days of voltage readings from the 100T-CP module
- » 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

* Supported features vary across applications

What's in the Box: Itron Mobile Radio Kit

Each Itron Mobile Radio package contains the following items:

- » Itron Mobile Radio with built-in antenna
- » AC power adapter
- » Micro USB cable
- » Itron Mobile Radio Quick Reference Guide

Optional Components

- Shoulder carry strap with belt-clip feature

SPECIFICATIONS

Functional

- » Power source: Internal 2270 mAh, 3.7V single-cell lithium-ion battery*
- » Operating temperature: -15°C to +50°C
- » Humidity limits: 0 to 95% relative humidity, non-condensing
- » Bluetooth 4.0
 - Bluetooth Class 1 for optimum performance to tablet /smartphone
 - Supported distances between the Itron Mobile Radio and endpoints vary across products and are rated for walk-by reading operations
 - Bluetooth is enabled when IMR is running on battery power or is connected to AC power. Bluetooth is disabled when IMR is connected to a host computer via USB

*Lithium-ion batteries will not charge below 0°C or above 45°C

Field Deployment Manager Laptop or Tablet Requirements

- » Microsoft® Windows 7 and Windows 10
- » Bluetooth 4.0

Itron Mobile App Smartphone or Tablet Requirements

- » Android 6 or iOS 9.0 or Windows 10
- » Bluetooth 4.0

Physical

- » Dimensions: 2.09 in x 2.90 in x 5.63 in (53mm x 74mm x 143mm)
- » Weight: 0.66lb or 10.6 ounces (0.3 kg)

Regulatory

- » **USA, FCC spectrum compliance:** This device complies with Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Operation is subject to the following two conditions:
 - This device may not cause harmful interference.

- This device must accept any interference that may cause undesirable operation.

» Canada, ISED spectrum compliance:

This device complies with Innovation, Science and Economic Development Canada (ISED) license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, (2) this device must accept any interference, including interference that may cause undesired operation of the device.

» RF Exposure for FCC and ISED for IMR2:

This device has been evaluated and found to be compliant for RF Safety with regards to Specific Absorption Rate (SAR) for portable device equipment set forth in the United States and Canada. The SAR limit for wireless mobile and/or portable devices used by the public is 1.6 W per kilogram averaged over 1 g of tissue. The standard incorporates a substantial margin of safety to get additional protection for the public and to account for any variations in measurements.

Approved Endpoints*

- » All legacy Itron ERT® modules
- » 40G / 40GB gas ERT modules
- » 100G gas ERT modules
- » 500G OpenWay® Riva gas ERT modules in mobile mode
- » 40W / 50W water ERT Modules
- » 60W water ERT modules
- » 100W water ERT modules
- » OpenWay Riva Water modules in mobile mode
- » Itron CENTRON Bridge Polyphase electricity meters in mobile mode
- » 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

* Supported endpoints can vary across applications.



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