

# U-Com Under-Glass Communications Module for MARK-V EMS60X Meters

## Featuring 4G LTE, Multiport Ethernet and Serial Data Connectivity

### U-Com System Advantages

- Allows Multiple Entities to Simultaneously Access Real-time DNP3/Modbus and Accumulated Meter Register Data
- Open Standards Operating System with Powerful Processor and Gigabytes of Expandable Memory
- Supports Advanced Metering Data Analytics Applications and Real-Time Grid Monitoring
- Supports PCIe and USB Plug-in Modules for Running Embedded Applications for Meter Security, Power Quality, Encryption, etc.
- Communication Ports Provide Gateway Hub functionality to connect to external devices
- Network Time Protocol (NTP) Time Synchronization

### Advanced Under-Glass Multi-Port Billing and Real-Time DNP3/Modbus Communications

The new U-Com under-glass communication module delivers a powerhouse data telemetry solution for our MARK-V EMS60X advanced energy meters enabling simultaneous multi-port Ethernet, 4G LTE wireless and RS232/485 serial data connectivity for real-time DNP3/Modbus monitoring and accumulated meter register data retrieval. No other advanced revenue meter can provide this level of enhanced data telemetry capabilities.

The core of the U-Com under-glass module is an open-standards operating system that provides unrivaled flexibility to meet the challenging real-time, multipath data telemetry requirements of today's advanced revenue metering applications. This innovative technology enables multiple authorized users from multiple entities to simultaneously access revenue metering and real-time DNP3/Modbus data from MARK-V EMS60X meters using any of its available communication ports.

The U-Com module can be ordered with any or all of the available communication options including 4G LTE Wireless, multiport Ethernet and RS232/485 serial ports.

### U-Com Module Key Benefits

- Upgrades Obsolete 2G/3G Cellular Equipped Electric Meters
- Advanced data security features
- 4G LTE Wireless Under-Glass Module - Verizon Certified
- Multiport Ethernet Supports 10 Authorized Users
- Up to 4 RS232/RS485 Serial Data Ports
- Upgradeable Wireless module change-out feature
- Easy-to-use configuration software package



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U-Com Under-Glass Communication Module

### Simplicity & Flexibility

Our MARK-V configuration software is designed for simplicity. This means a minimal learning curve to get your meters up and running with the latest advanced communication offerings.

SERIAL PORT CONFIGURATION

Port	Connected To	Baud Rate
COM1	Register Port	19200
COM2	SCADA port	9600
COM3	Register Port	19200
COM4	SCADA port	115200

UCOM BOARD - NETWORK PORT CONFIGURATIONS

Model Setup	Port Number	Connected To	Port Type
Measured Quantity	8001	Register Port	Ethernet
Register Display	8002	SCADA port	Ethernet
Interval Recorder	9001	Register Port	Wireless
Demand Operation	9002	SCADA port	Wireless
Communications	8003	COM1	Ethernet
Dial-In Setup	8004	COM2	Ethernet
Vector Analysis	9003	COM1	Wireless
Power Quality	9004	COM2	Wireless
Control Outputs	7001	COM3	All
Status Inputs	7002	COM4	All
Meter Operation			
Time Of Usage			
Loss Compensation			

Advanced IP Addr Range

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MARK-V Software: sample U-Com configuration screens