

INTEGRATED BILLING MODULE



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An Introduction

IBM is a Customizable Utility Billing software application meeting current core functions and future needs of any of the Utility Companies. It can integrate all aspects of utility services, including maintaining accounts, billing and collection interface to meter reading system both manual and automated, service order processing payment interfaces, and customer web access.

Advantages

- o Easy integration with any brands of BTU meters.
- o Billing Module available in both Cloud & Desktop based version.
- o Compatible with all major brands of wired & wireless M-Bus masters
- o Supports M-Bus, Modbus & BACnet protocol.
- o Easy integration with existing Finance / ERP system (ORACLE/SAP)
- o Single application can support upto 5000 BTU meters in On-premise and Unlimited with Professional Version

IBM Advanced Features (On-premise)

- o Collect data from any MBUS, Modbus Meters
- o Configurable Currency
- o Push data to BMS as CSV file and as BACnet object
- o Real-time Monitoring of all meters
- o User friendly Dashboard interface with graphs
- o Manual Payment / Bulk Payment Entry
- o Scheduled Valve control
- o Configurable meter tariff
- o Customized Invoice template
- o Corporate email configuration
- o Invoice mailing to customer mail id
- o Schedulable data polling
- o Manual MBUS Valve Control
- o Data pushing to IBM/Other clouds
- o Meter reading import option
- o Outstanding Bill wise and carry over
- o Bill History bulk export option
- o Multi User login with menu selection
- o Group Meters based on building, floor, and customer Name.
- o Bulk import option for meter and client configuration
- o Collect data from BMS CSV file and Modbus registers from BMS.

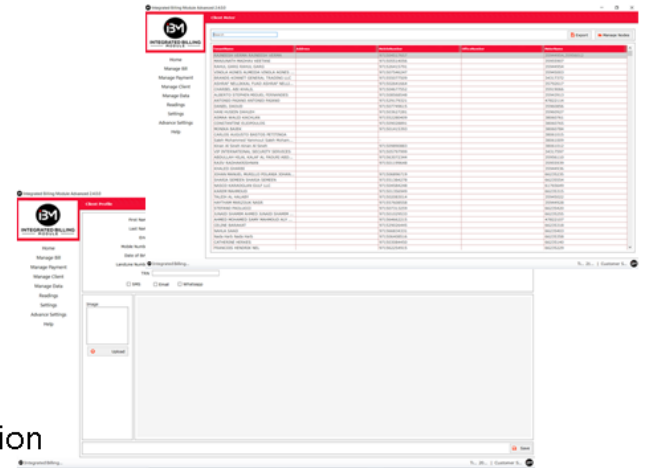
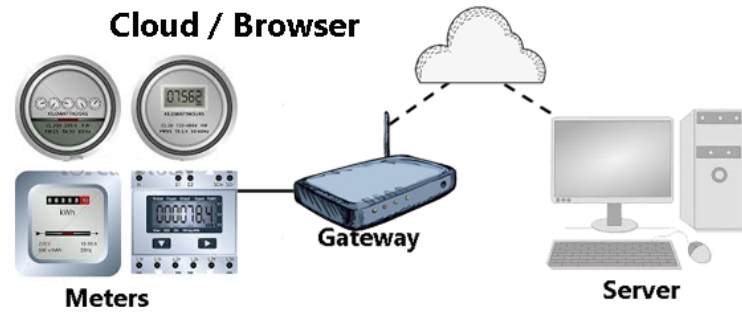


All the Department under one Roof Solution



IBM Cloud Features

- Send Bill to tenants through WhatsApp & Email
- Automated Bill Generation
- Live data analysis from anywhere – Mobile APP
- Individual Login for all tenants
- Online & manual Payment Entry
- Payment Gateway Integration depends on Customer Requirement.
- User friendly Dashboard interface with graphs.
- Group Meters based on building, floor, and customer Name.
- Online Billing with Customized Invoice
- Real-time Monitoring of all meters
- Meter Error log list
- Quick installation & configuration
- Invoice auto mail based on trigger date
- High and low consumption alert while invoice generation
- Meter Disconnection and Reconnection



Key Features

- Lighter & Faster – Developed using Asp.net,html5 , Bootstrap , css3, JS , JQuery, Ajax, web-service & MS SQL R15.
- User Customizable Billing Format.
- Dashboard based on user requirement.
- Easy Client Data Management.
- Multi-level passwords for multi-level authorization.
- Dedicated Payment module for easy accounting.
- Online screen for monitoring live & instantaneous parameters.
- User configurable alerts.
- Optional Email / SMS / Whatsapp & ChatBot module.



Alerts



Links

IBM Advanced Technical Video : <https://youtu.be/5oD2lkpN9VY>

4G RS485 Modbus Gateway

INTRODUCTION



Our smart UC420M Modbus RTU to 4G PRO Gateway with fall back to (GPRS/2G/3G/4G/LTE) Network will expand your Data communication over wireless networks with Secure and two-way communication. The device can collect data from a variety of Modbus Slaves, Sensors, industrial machines, IO data are sent to the centralized server or cloud server. The gateway supports multiple protocols like TCP / Http / MQTT with SSL mode. We can do the configuration by PC Utility or SMS or Server IP Commands and all parameters are remotely configurable. Plug and Play help greatly reduce the prototype development life cycle and provide developers and solution integrators. The easy transition of Wired Network to Wireless Communication using Modbus RTU to 4G Gateway with a simple and cost-effective solution.

Easy to connect single or multiple any standard Modbus slaves and configure selected Modbus registers. Assure no data loss at any condition because of Our Connect Me Proprietary RTOS and inbuilt Intelligent Logger system will take priority tasks.

FEATURES

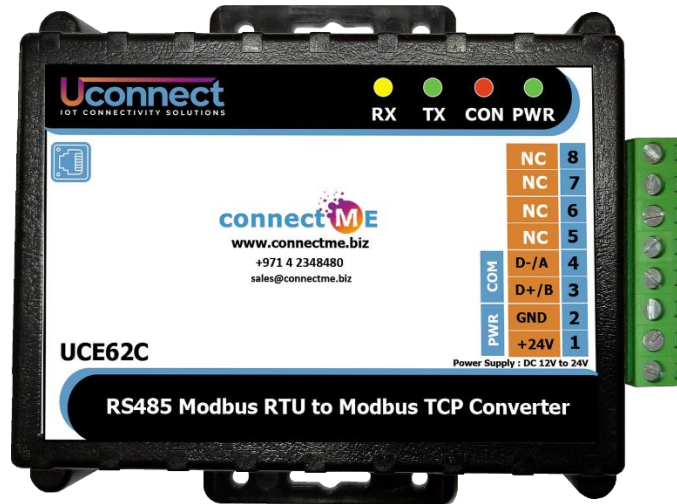


- Intelligent Modbus, IO, Data Logger, GPRS/2G/3G/4G/LTE Connectivity Management
- 1 x RS-485 port for Modbus, 1 x Utility port for Configuration
- Configure and Read Multiple Slave IDs, Selectable Register Address data.
- Parameter Data type, Byte Swapping Conversion and Scaling factor enabled.
- Transparent Modbus or Device Inbuilt Polling – Formatted to (ASCII/HEX/Raw HEX)
- Smart Inbuilt Data Logger works during Network and Server Disconnection
- Logger Sends offline data once Network and Server Connected
- Authorized numbers list for command and Configuring.
- Configurable TCP/Http/MQTT/Https Mode, GET/POST Methods
- Configurable CSV/JSON Format for Parameter Pocketing
- Remote Configuration through SMS/GPRS/Server IP Commands
- Additional 2 x Digital, 2x Analog Chanel (0 to 24V), 1 x 4 to 20mA Chanel and 1xRelay
- Alerts: Power Failure Restore, Low battery Shutdown, Digital IN Changes, Device Reset.
- OTA (Over the Air) Firmware upgrade, Device Configuration update.
- LED indicators to provide GSM, GPRS, Signal, and Modbus TX/RX COM Status.
- Configurable Server Connection: Connects on Demand or Always Connected.
- Keep Alive command to maintain socket connection

RS485 Modbus RTU to TCP Converter



INTRODUCTION



Our smart UEC62C Modbus to Ethernet Gateway will expand your Data communication over wired networks by Ethernet / LAN Gateway with Secure and two-way communication, without in-depth knowledge of Protocol Concepts. Our Smart Modbus Gateways Series replaces the complex approach of sending the Modbus slave data to the centralized server, either single or multiple slaves. Modbus RTU to Ethernet Gateway collects the data through MODBUS (RTU) protocol and sends it to the centralized server through an Ethernet/LAN using TCP or Http mode by JSON or CSV Format. All the Parameter is configurable via Web Portal or PC Utility or Server IP Commands, All configurations are done remotely. Not required to have the device during configurations.

Our generic Modbus to Ethernet Gateway to fetch the Standard Modbus Slave device like Energy meters, Solar Inverters, PLC, Windmill, AMR, IO Modules, Flow Meters and more. The built-in smart data redundancy communication paths of Ethernet IP in RTU Gateway, the data would be guaranteed to transfer your centralized server. We also provide a Cloud-based Graphic interface (based on client requirements) to manage your device machines easily. Users can monitor and control the Slave and I/O data of RTU devices

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