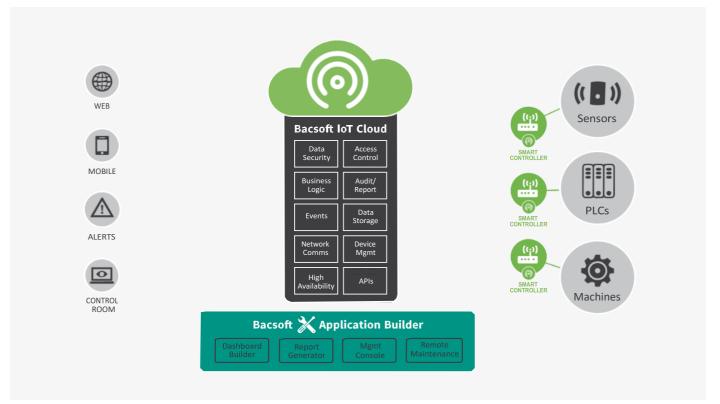
BACSOFT B-CONNECT ME SMART COMMUNICATIONS CONTROLLER

BACSOFT IOT PLATFORM

The Bacsoft platform is an end-to-end solution for building and managing advanced loT and M2M applications. Using Bacsoft, companies can rapidly connect their legacy infrastructure to the Industrial Internet and build applications to remotely monitor and control their operations.







M2M COMMUNICATIONS:

Bacsoft B-Connect me Smart Communications Controllers offer built-in support for a wide variety of devices, interfaces and protocols. Designed to operate reliably under all kinds of conditions, the B-Connect me Smart Communications Controller is cost-effective and easy to deploy.

IOT CLOUD:

The Bacsoft IoT Cloud handles all aspects of communications, application execution, data storage, security and auditing. It easily scales to support thousands of connected devices.

APPLICATION BUILDER:

Rapid development tools enable integrators and IT organizations to easily build tailored IoT applications without coding and deploy them for mobile, web and control rooms.

BACSOFT B-CONNECT ME SMART COMMUNICATIONS CONTROLLER: ETHERNET AND 3.5 G CONNECTIVITY FOR LEGACY NETWORKS

The Bacsoft B-Connect Me Smart Communications Controller provides Ethernet connectivity as well as bi- directional cellular communications over 3.5G networks. This compact, yet highly versatile controller provides reliable M2M communications at any site and under all conditions.

Each device manages the connectivity to the server and can adapt to field conditions by initiating communications, performing self-recovery and more. A hardware-based external watchdog ensures that the communications software is running properly at all times, and, in case of an error, reboots the controller.

Bacsoft secures M2M communications with optional SSL 3.0 encryption, along with the option to install private, self-signed certificates. To further increase security and eliminate the need for a fixed IP address, the controller identifies and verifies the server during each connection.

The M Smart Communications Controller can be used to manage virtually any device. It includes built-in support for Modbus and Melsec and is easily adapted to work with any proprietary protocol, binary or ASCII. Where appropriate, one controller can manage a series of devices through a serial RS485 interface, simplifying deployment and eliminating multiple SIM cards.

FEATURES



Plug & Play Connectivity (easy setup, all wireless)

Always On - refresh rate of data read and data write is around 1 seconds both ways

Includes external hardware watchdog for fail-safe operation

Very Low Data Usage (a few megabytes per whole month 24/7 connectivity)

Various Digital Interfaces:

- 2 Digital Inputs
- 2 Hardware Counter 32 bit
- 1 RS232/1 RS485
- 1 RS232
- 1 Ethernet RJ45

Logging Capabilities

Debug and setup using standard SMS messages

OTAP (Over the Air Provisioning) support for software updates

Optional SSL Version 3 with embedded server certificate for secure applications

Option to open a raw tunnel directly to remote equipment

APPLICATIONS



INDUSTRY APPLICATIONS

Multi PLC Control
All Types of Sensors Readings
(Analog/Digital/ASCII/Binary)

ENVIRONMENTAL APPLICATIONS



Temperature, Humidity, CO2 (etc) Monitoring
Forest Fire Detection
Meteorology Station and Monitoring
Early Earthquake Detection
Snow Level Monitoring

More

Air Pollution

SMART CITY APPLICATIONS



Parking Control Smart Lighting

Traffic Control

Waste Control

More

METERING APPLICATIONS



Tank Level (Oil/Gas/Fuel) Silos Material Measurement Electric/Water Meter Reading

WATER APPLICATIONS



Remote Control of Valves

Leak Detection

Valve Control

Water Meters (Pulses, Binary, ASCII)

Water Leakage

River Height and Flood Alerting

Swimming Pool Monitoring

AGRICULTURE APPLICATIONS



Green Houses

All Type of Irrigations Controllers Low-Energy Sensors (Tensitometers etc)

Hen House / Cowshed Control

SECURITY APPLICATIONS



Transformer Theft Alarm

All Types of Security Sensors (Entry, Step-on etc)

Access Control

CELLULAR SPECIFICATION

Five Bands UMTS (WCDMA/FDD) Bands: 800, 850, 900,

1900 and 2100 MHz

Quad-Band GSM Bands: 850, 900, 1800 and 1900 MHz

SYSTEM SPECIFICATIONS

POWER REQUIREMENTS

Supply Voltage Range 12-24 VDC

CURRENT CONSUMPTION	ON
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GSM/GPRS Mode 170 mA (Avg) at 12 VDC Maximum momentary 250 mA (Avg) at 12 VDC

MEMORY CHARACTERISTICS

Type Read Write

Max Storage Capacity Up to 90000 Measurements
(in off mode)

ENVIRONMENTS

Operating Temperature -20°C to 70°C

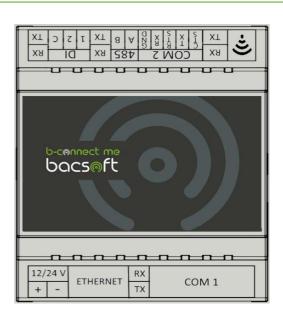
Automatic Turn Off 80°C

Storage Temperature -35°C + 75°C

Operating Humidity 5% to 95%

DIMENSIONS/WEIGHT

Dimensions 70 x 86 x 58
Weight 150g

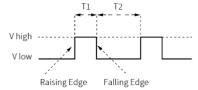


INTERFACES

2 Isolated Digital Inputs (can be configure as Hardware Counters)

Counter

T1 minimum is 20MS and maximum unlimited. T2 minimum is 20MS also and maximum unlimited. The counter is 32 bits.



1 Serial RS-232/1 Serial RS-485 1 Serial RS-232 1 Ethernet - RJ45	Full Duplex/Half Duplex Full Duplex
Antenna Connector	SMA Male
SIM card socket	Push type
Plug in Backup Battery/Auxiliary Input	Terminal Block
LED Indications 2 LEDs for each communication port 2 Status LEDs	RX/TX, System Status
Power Supply Socket	Terminal Block

ADVANCED TECHNICAL INFORMATION

DIGITAL INPUT CHANNEL SPECIFICATION

 Input Range - On
 3 - 30V ("1")

 Input Range - Off
 0 - 1V ("0")

 Input Resistance
 280Kohm

 Over Voltage Protection
 50V

Digital inputs can be configured to act as digital counter for use with sensors that generate pulses



