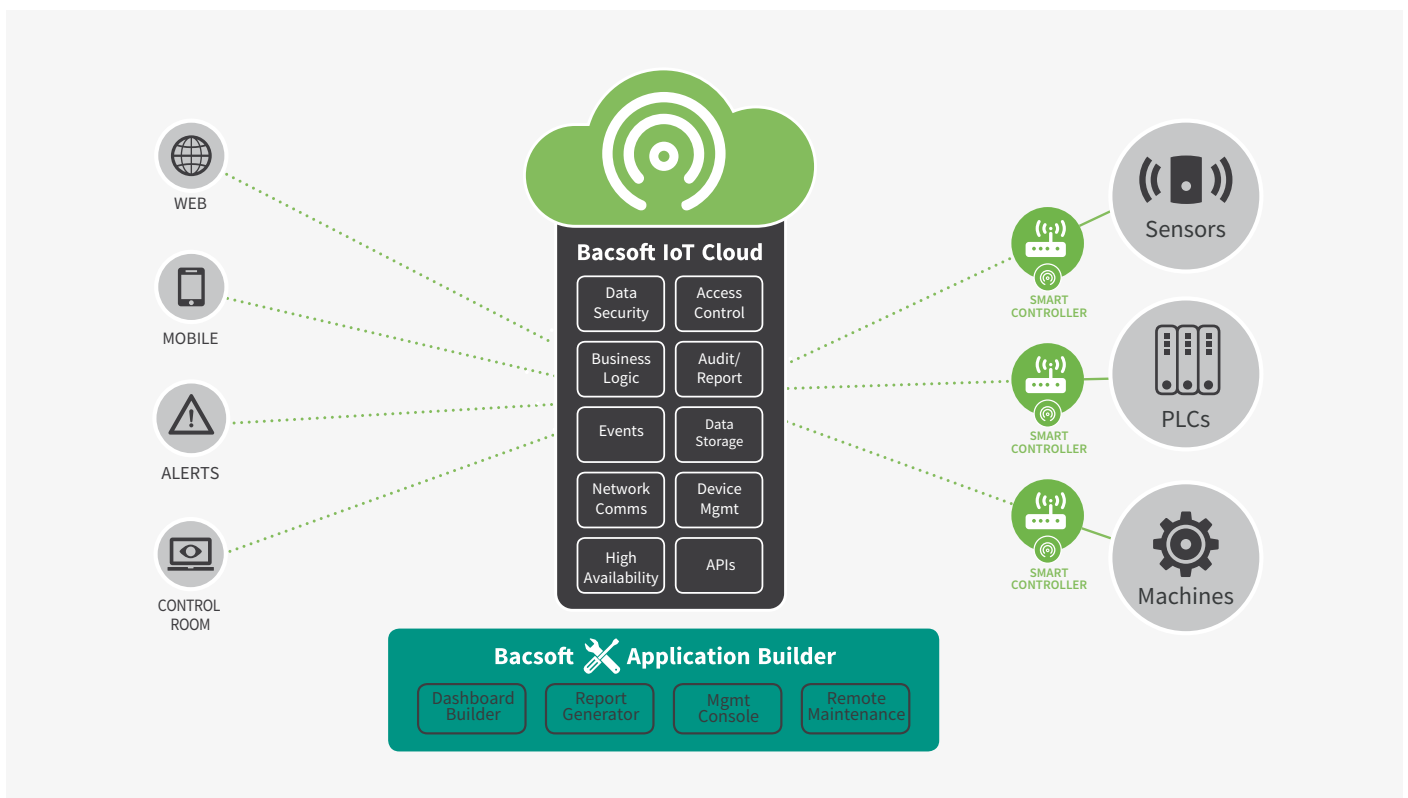


BACSOFT B-CONNECT ME SMART COMMUNICATIONS CONTROLLER

BACSOFT IOT PLATFORM

The Bacsoft platform is an end-to-end solution for building and managing advanced IoT 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.

Bacsoft reduces the complexity of IoT projects with a combination of robust and reliable remote connectivity, simple and rapid application development, and scalable cloud services.



M2M COMMUNICATIONS:

The Bacsoft B-Connect ME Smart Communications Controller offers built-in support for a wide variety of devices, interfaces and protocols. Designed to operate reliably under a variety 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 and bi-directional cellular communications over 3.5G networks. This compact, yet highly versatile controller enables reliable M2M communications at any site, under all conditions.

Each device manages 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 runs properly at all times, and in case of error, reboots the controller.

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

The ME Smart Communications Controller can be used to manage any device, virtually. 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 approximately 1 second, both ways

External hardware watchdog for fail-safe operation

Very low data usage - a few megabytes per month with 24/7 connectivity

Various analog and digital interfaces:
2 Digital Inputs
2 Hardware Counter 32-bit

2 * RS232
1 RS485
1 Ethernet RJ45

Logging Capabilities

Debug and set up 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
Air pollution monitoring
More

SMART CITY APPLICATIONS



Parking Control
Smart Lighting
Traffic Control
Waste Control
More

METERING APPLICATIONS



Tank level (Oil/Gas/Fuel)
Silo 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

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

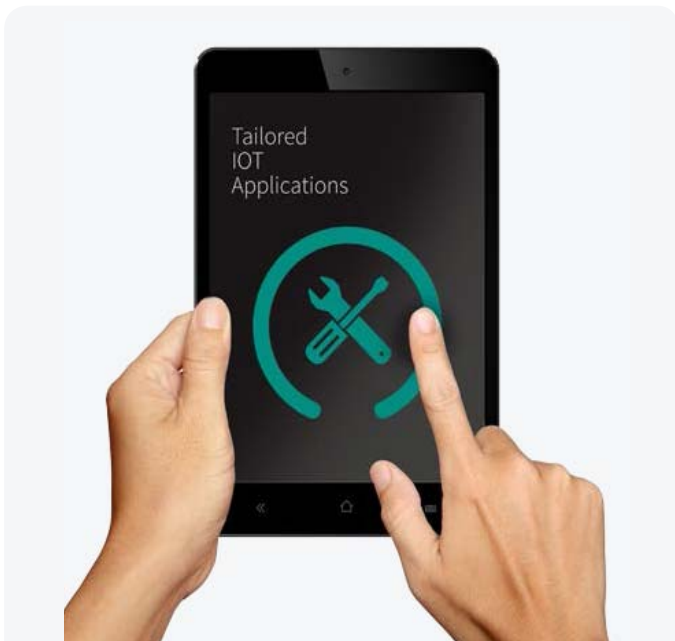
Operating Temperature -20°C to 70°C
 Automatic Turn Off 80 °C
 Storage Temperature 35 °C + 75 °C
 Operating Humidity 5% to 95%

DIMENSIONS/WEIGHT

Dimensions 70 x 86 x 58
 Weight g150

WIRELESS MODULE

Gemalto EHS6

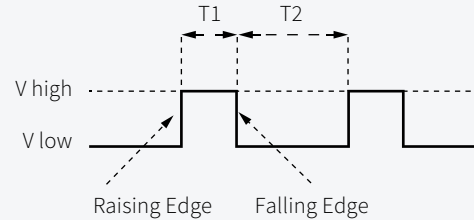


INTERFACES

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.



2 Serial RS-232 Full Duplex
 1 Serial RS-485 Half Duplex
 1 Ethernet – RJ45

Antenna connector SMA Male

SIM card socket Push type

Plug in Backup Battery /Auxiliary Input Terminal Block

LED Indications RX/TX , System Status
 2 LEDs for each communication port
 2 Status LEDs

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