T-Star 245 Energy Management InferStack™ Platform

- 3G modem option
- Ethernet LAN for BACnet™ and Mobus®
- Ethernet WAN for enterprise connection
- RS-485 BACnet™ MSTP or Modbus® RTU
- 2 pulse inputs for tariff meter

T-Star 245 Data Sheet

The T-Star 245 InferStack™ Platform meets many Internet of Things Application requirements. It is an ANSI C12 certified tariff meter for both pulse inputs and with a Modbus® RTU connected Veris CT package and the ability to connect to Building Automation Systems make this a good fit for metering, monitoring, Automated Demand Response and Analytics.

Ethernet LAN and WAN connect to plant over BACnet™ IP and Mobus® TCP and to enterprise servers with oBiX and Haystack protocols. 3G modem GSM or CDMA is optional. RS-485 serial connection supports BACnet™ MSTP and Mobus® RTU.

The T-Star 245 InferStack™ Platform is part of a comprehensive range of Hardware, Software and Connection Services that enable Service Providers to deliver the benefits of the Internet of Things to Intelligent Buildings, Equipment and Smart Devices.

InferStack™ provides elegant, simple to design Visualization of real-time and historical data with Graphics and Dashboards, the powerful B-Line Control Engine, custom Reporting, simple and effective Alarm and Event Handling and optional industry leading on-board Analytics.

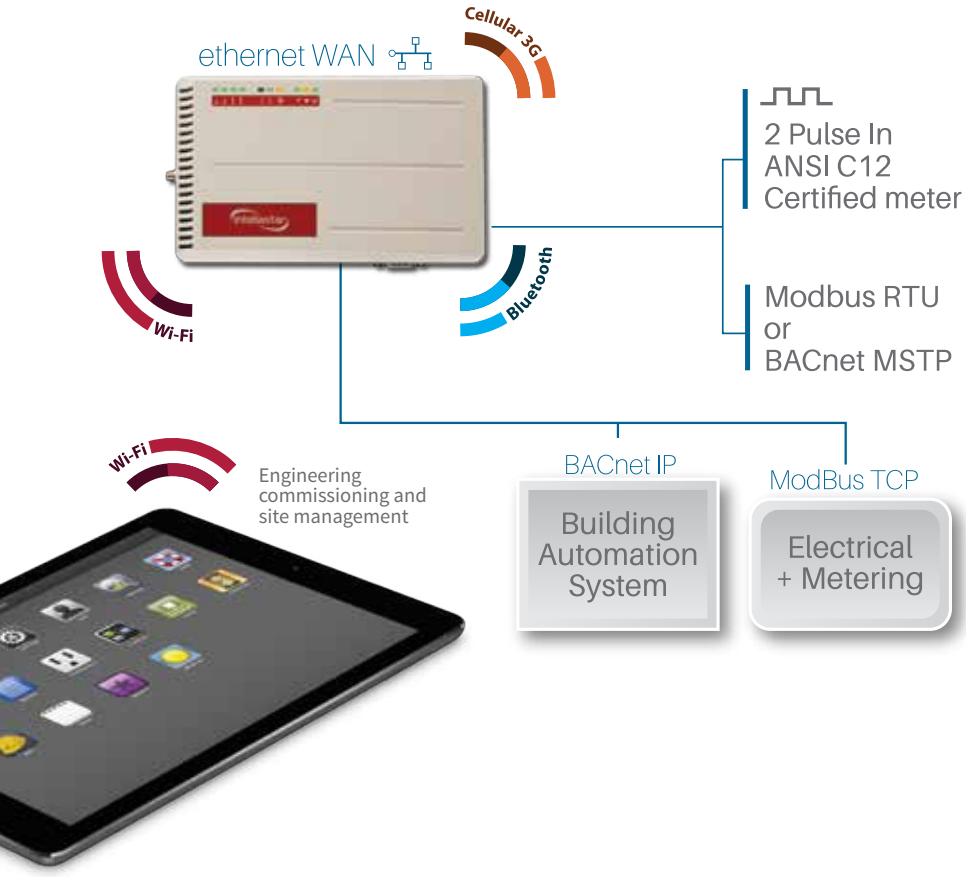
The Platform is used for many Applications including:

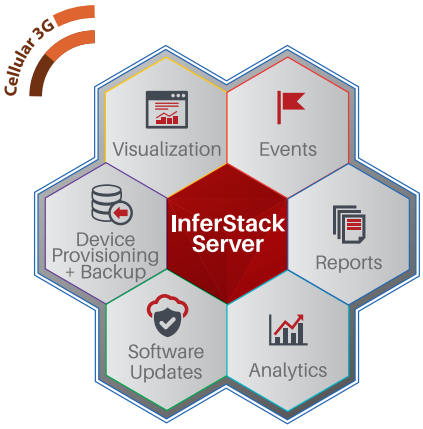
- Energy Monitoring and Analysis
- Building and Plant Fault Detection and Diagnosis
- Plant Control and Optimization
- Smart Grid and Automatic Demand Response

InferStack™ incorporates the Project Haystack standard for Data Modeling.

A built in Wi-Fi Access Point allows Mobile Devices to Communicate with the T-Star 245 Platform for ease of set up commissioning and all visualization.

Architecture



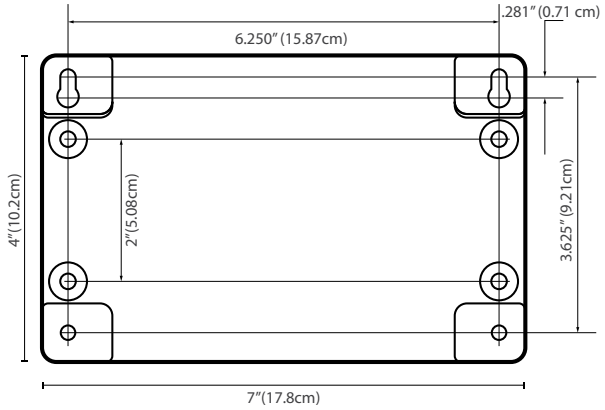


Software

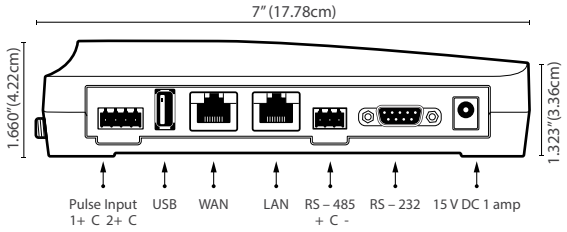
InferStack™

- InferStack™ Application Environment with Project Haystack modeling.
- Wind River ® Linux 5 Operating System with Java® Virtual Machine
- Serial communication for Modbus® RTU and BACnet™ MSTP
- IP protocols Modbus® TCP, BACnet™ IP, oBIX™, Haystack™

Mounting Dimensions



- Molded plastic case, convection cooled
- Multiple mounting options—desk, wall, or in enclosure
- Net weight 1.0 pound (0.45 Kg)



Hardware

- TI ARM Cortex™ A8 Cortex processor @ 600 MHz
- 512 MB DDR3 RAM
- 8 GB Micro SD Flash for system and application data backup
- Trusted Platform Module (TPM) for security
- 2 10/100 MBit Ethernet port
- Wi-Fi for data and user interface connectivity
- Bluetooth V4.0 BLE
- Two digital inputs for pulse counting up to 50Hz pulses at 50% duty cycle
- One RS-232 port: DB9 male connector
- One RS-485 port: 3 point terminal
- Optional 3G modem, CDMA or GSM
- Power—15 volts DC
- Rechargeable internal battery backup
- Multiple Mounting Options-Desk, Wall or Enclosure
- Environmental—Operating range
  0 to 50 Degrees C (32 to 122 Deg. F)
  Humidity 0 to 90% RH non-condensing

Agency Listings

- UL-60950 or Met Labs equivalent
- FCC Part 15 Class B for electromagnetic and Class C for modem
- RoHS compliant
- CE compliant
- ANSI C12 Certified Meter

Ordering Information

Part Number	Description
245N	InferStack™ w/ 30 pts & no 3G modem
245C	InferStack™ w/ 30 pts & CDMA modem
245G	InferStack™ w/30 pts & GSM modem
245-100P	InferStack™ 100 pts expansion pack
245-200P	InferStack™ 200 pts expansion pack
245-30A	InferStack™ Analytics 30 pts pack
245-100A	InferStack™ Analytics 100 pts pack
245-200A	InferStack™ Analytics 200 pts pack

The maximum number of InferStack™ points a 245 will accommodate is 430 embedded platform points & 430 analytics points.

InferStack™ Analytics is an option. If used, the number if analytics points must be the same as platform points.