OVERVIEW
The SAT130 is a powerful Dual Mode Satellite & Cellular Industrial M2M Gateway designed for high value fixed and mobile site and asset monitoring applications. Dual Mode Cell & Satellite Operation ensures coverage in the most remote areas. SAT130 RS232, RS485, Ethernet (LAN) and Wi-Fi (WLAN) interface allows direct connectivity to Industrial Devices including PLC, RTU, EFM, Data Loggers, and Instrumentation. Onboard GPS allow integrated time and location data for delivery and tracking applications. The SAT130 augments the Modem, RTU, and Alarm Callout function of the SAT1xx family with powerful features of a programmable industrial computer with Ethernet (LAN) / Wi-Fi (WLAN) connectivity.

FEATURES
• Dual Mode Satellite/Cellular Communications
• Inmarsat Satellite Communication ensures World Wide Coverage
• Ethernet (LAN), RS232/RS485 and Wi-Fi (WLAN)
• VPN
• GPS
• Integrated Onboard Analog & Digital I/O
• Class I Div 2

APPLICATION — MOBILE & FIXED
• Oil and Gas Service
  Well Testing
  Drilling
  Fracking Operation
• Bulk Gas and Fuel Delivery Ticketing
SPECIFICATIONS

Satellite Communication
- Satellite Service: 2 way Inmarsat
- Coverage: Global
- Elevation Angle: -15° to +90°

Cellular Communication
- GSM – Quad-band GPRS/EDGE, Penta-band HSPA/HSPA+
- CDMA – 1xRTT, EV-DO
- Accuracy: 2.5/2.0 m (Horizontal CEP)
- Sensitivity (Cold Start): Acquisition: -148 dBm, Tracking: -162 dBm
- Time to First Fix (Cold Start): 29s

GLONASS
- Accuracy: 4.0m (Horizontal CEP)
- Sensitivity (Cold Start): -140 dBm
- Time to First Fix (Cold Start): 30s

Dimension: 114.5 x 101.7 x 44 mm (L x W x H)

Interface
- Input/Outputs Serial: 4 Analog or Digital In/Out

Electrical
- Input Voltage: +9 to 33VDC
- Power Consumption: Typical@12VDC
- Connected to the Cell Network, GPRS: 121mA
- Peak Transmitting (GPRS): 772mA
- Humidity: 5% - 95%, non-condensing (base unit)

Environmental
- Operating Temperature: -30° to +70°C (excludes antennas)
- Storage Temperature: -40° to +85°C (excludes antennas)

Connectors
- Transceiver 30 position JAE Electronics Inc.
- mating connector IL-AG5-30S-D3C1
- Satellite Antenna IMS Connector Systems 3400.SMBA.2K10.089 K-curry yellow
- Cellular Antenna IMS Connector Systems 3400.SMBA.2D10.029 D-Bordeaux-Violet

ORDERING INFORMATION

SAT130 Terminal
SAT130-KIT1 Satellite/Cellular Terminal, Satellite & Cellular Antenna with Cable and Connector, WLAN/Wi-Fi Antenna

ACCESSORIES

Dimensions: 3.39” x 2.71” x 1.72” (L x W x H)

OPTIONAL

LCD Key Pad