TECHNICAL BULLETIN:

ST-6100 C1D2

ST-6100 C1D2

The ST-6100 Satellite Communication Terminal utilizes two-way satellite technology to give you important information and alert you to critical conditions, in many cases giving you the opportunity to respond before failure even occurs. Having visibility over your equipment's operating status gives you the power to make sound, informed, and timely decisions to optimize your operations. AMCi-Wireless can help by giving you the information you need to make these decisions and minimize or even prevent downtime in your operations.

*Disclaimer AMCi warranties ST-6100 hardware for a full three years (36 months) * * Warranty is subject to AMCi published Terms and conditions. Contact your AMCi representative to obtain a copy or visit www.amci-wireless.com*

KEY FEATURES

Built-in GPS receiver and antenna

4 I/O channels – configure as digital I/O or as analog input

AMCi-Wireless SatAlarm®-Server

24/7 technical support, call center, and asset administration

Optional Modbus or expanded I/O

CID2 certified model for hazardous sites

Weatherproof construction

Integrated antennas (no coax), no external antennas
36 month warranty

PRODUCT BENEFITS

Insight into Remote Operations

Gap-Free Coverage

GPS for Precise Location Information

Scheduled, Event-Based, and On-Demand Reporting

Programmable Over The Air - reducing the need to send personnel into the field

Flexibility to Communicate with many Sensors and Controllers

Low Power Consumption for Applications that Require Long Battery Life

24/7 Technical Support

SatAlarm® Server Web-Based SCADA

- Web browser based historian
- Color graphical interface
- User configurable displays
- Customizable dashboard
- Multi data point graphs
- Data tracking
- Integrated maps
- Equipment configuration
- Device control
- Data conditioning
- Reporting

EXTERNAL INTERFACES

- Serial: 2 ports; RS-232 and RS-485
- I/O: 4 channel; individually configurable as analog input or digital input/output
  - Analog inputs: 0 – 3.0V, 1.0mV (12-bit) resolution
  - Digital inputs: -10 – 150VDC safe, pull-up or pull-down
  - Digital outputs: 32VDC safe, 250mA sinking (open drain), or 3VDC, 25µA (push-pull)
- Additional I/O available using Modbus I/O expansion modules

PROGRAMMING

- Reporting (configured over the air):
  - Configurable time-of-day based schedule
  - Configurable interval-based schedule
  - 3 minutes up to once every 3 days
  - By exception; user definable test conditions
- Modbus-RTU:
  - 16 configurable commands
  - Data reportable by schedule, interval, threshold test, any change, or pattern match

GPS

- Acquisition Time: 1 second (Hot) 29/30/36 seconds(Cold)
- Accuracy: 2 meters (CEP)
- Sensitivity:
  - Acquisition: -148 dBm
  - Tracking: -163 dBm

SATELLITE MESSAGING

- Two-way, global, IsatData Pro
- From terminal (max per message) - 6400 bytes
- To terminal (max per message) - 10,000 bytes

SATELLITE COMMUNICATION

- Frequency:
  - Carriage return (CR): 1626.5 – 1660.5 MHz;1668.0-1675.0 MHz
  - To terminal: 1518 – 1559 MHz
- Typical Latency: <15 sec, 100 bytes
- Elevation Angle: -5° to 90° for communications link
- Maximum EIRP: <7.0 dBW

POWER

- Input voltage: 9 – 32VDC
- Load dump protection: +150VDC
- Power consumption (typical average @ 12VDC, 22°C):
  - IDP receive: 65mA
  - Receive w/ GPS/Glonass/Beidou: 22mA
  - Transmit: 0.65A
  - Sleep: 100µA

CERTIFICATIONS/COMPLIANCE

- Satellite - Inmarsat
- Other - CE, FCC, IC, Anatel, CID2 hazardous locations

ENVIRONMENTAL

- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Humidity: 90%RH @ 85°C; meets SAE J1455
- Dust and Water Ingress: IP67
- Vibration - Meets SAE J1455
- Shock (survival): MIL-STD-810G

MODEL OPTIONS*

- ST-6100 - Bottom mount

MOUNTING KIT OPTIONS

- Pole-mount
- Magnetic-mount

PHYSICAL

- 5.0 x 5.0 x 1.9 in. (12.6 x 12.6 x 4.9 cm)
- 1.0 lbs. (0.46 kg)

WARRANTY

- 3 year standard limited warranty

INT 1 346 701 5711

www.amci-wireless.com

255 Pennbright Drive, Suite 240
Houston, TX 77090
2171 S Trenton Way, Suite 217,
Denver, CO 80231

salesmgmt@amci-wireless.com