TASC
SYSTEMS INC.

siteCOMMANDER
Remote Monitoring, Alarm and Control

The siteCOMMANDER system by TASC Systems is an affordable industrial temperature-rated, robust, low power device that allows effective site monitoring and control in many industrial and commercial applications. The siteCOMMANDER system is a viable solution for monitoring device functionality. The site monitoring system provides a graphical interface of your network enabling you to make "at source" evaluation of impeding issues.

The siteCOMMANDER combined with the siteVIEW Enterprise 2.0 software provides a very powerful, easy to implement, site monitoring and control solution.

The siteCOMMANDER system can be easily configured to meet the requirements of most applications enabling it to serve in a variety of industries:

- Utilities
- Oil & Gas
- Energy
- Mining
- Forest Services

- Public Safety
- Fresh Water Management
- Waste Water Management
- Transportation
- Agriculture

Benefits to be realized:

- Security & control
- Low power consumption
- Economical solution

- Reduced downtime
- Operational efficiency
- "At source" decision making

The siteCOMMANDER can be deployed in point-to-point and point-to-multipoint applications. The system can be configured to monitor most items including doors, solar panels, batteries, charging circuits, generators, fuel tanks and repeaters. The system can be used in control applications where an input mapping feature allows an event or a change in state to trigger an output.

Inputs & Outputs

The siteCOMMANDER has the following inputs and outputs:
- 8 digital inputs capable of accepting a wide input voltage range (up to 60VDC) from contact closures, passive switches or solid state switching devices
- 8 analog inputs that can be programmed with upper and lower set points
- 8 temperature inputs when equipped with optional sensors
- 8 open drain output channels capable of switching up to 50VDC at 150mA each

The siteCOMMANDER in conjunction with siteVIEW Enterprise 2.0 can monitor many of the critical parameters that make up your system, such as:
- Voltage levels
- Power status
- Intrusion
- Connectivity
- Temperature (optional)
- RSSI

The siteCOMMANDER system is designed to meet the current and future requirements of the wireless industry. The system is designed to function with all manufacturers' radios and consume the least amount of power satisfying the requirements of remote sites. The capability to send information via radio provides a level of flexibility when integrating into existing networks. The siteCOMMANDER combined with siteVIEW Enterprise 2.0 will monitor your remote sites and provide the information needed to take appropriate action.

Motherboard	
Power	+11 to +20 VDC
Current Consumption	Maximum 80 mA @ +13.5 VDC; <15 mA current draw in low power mode. (1 second wake-up interval)
Weight	Less than 500 g
Operating Temperature	-40 to +65°C
Digital Inputs	8 contact closures, switches, open collector or voltage inputs (0 to 60 VDC input) with individual hold timers
Digital Outputs	8 'open drain' FET outputs, switching up to 50 VDC @ 150 mA each. Programmable pulse or latching output
Analog Inputs	8 x 10-bit A/D, 0 to 5 VDC, 0 to 25 VDC, 0 to 100 VDC (external adapter) with individual hold timers and high/low trigger set points per input.
Temperature Monitoring	Up to 8 temperature sensors (option, see specification below)
Serial Ports	Two RS-232 asynchronous ports

Analog RF Interface	
Data Rate	1200 & 2400 bps synchronous
Signaling Type	FFSK
Radio Interface	50 K ohm level adjustable
COS	Programmable active high/low or input level detection.
PTT	Programmable active high/low switching up to 55 VDC @ 150 mA
PTT Delay	Programmable in 10 ms increments – maximum 1 second

4-Wire Interface	
Data Rate	1200 & 2400 bps synchronous
Signaling Type	FFSK
Output	600 ohm transformer isolated
Protection	DC blocking to 60 VDC, secondary impulse protection
Signaling	Ear and Mouth optically isolated or input level detection

siteCOMMANDER Configuration Utility (SCCU)	The SCCU is included with the siteCOMMANDER. The utility allows the user to configure the modules' operating parameters from a personal computer running Windows XP/Vista/7/Server 2003/2008.
siteVIEW Enterprise 2.0 Site Monitoring and Control Software	TASC siteVIEW Enterprise 2.0 is a fully configurable Windows XP/Vista/7/Server 2003/2008 based site monitoring and control software package for use with siteCOMMANDER hardware. This optional software package allows the user to graphically view detailed information about each site. siteVIEW Enterprise 2.0 features simple drag-and-drop configuration, extensive event logging, audible alarm notification, and automatic polling.

Temperature Sensors

The siteCOMMANDER can support up to a maximum of 8 temperature sensors per module. Requirements beyond this capacity can be supported by special order.

Span:	-55 to +125°C	Connector:	RJ-45 Modular jack
Accuracy:	-25 to +100°C +/- 2 C° max	Bus derived power:	2 mA per sensor
	-55 to +125°C +/- 3 C°		