

# C-SECURE® MODEL 131 WIRELESS TRANSCEIVER

The advanced GSM/GPRS AVL/Telemetry remote communicator  
Offered with or without GPS



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**C-SECURE™**

# OVERVIEW



It combines GPRS, industrial automation control technologies and, optionally, GPS, providing the reliable data link in AVL and Telemetry applications.

## OVERVIEW

Currently equipped with 4 General Input and Output (GPIO - 3x digital inputs + 1x digital output) and 1 serial port (RS-232/RS-485 selectable), the C-Secure® 131 transceiver is an ideal wireless solution for messaging to and from a single motherboard/control panel, such as for equipment and fleet management. Ask us about other models with up to 3 serial ports and 8 digital input/outputs! We also supply analog converters, sensors, authentication devices and related equipment to add further value to the monitoring solution.

C-Secure 131 combines GPRS, industrial automation control technologies and, optionally, GPS, providing the reliable data link in AVL and Telemetry applications.

This robust transceiver is capable of operating with all bands of GSM/GPRS for international coverage. For example, it can be used as a helpful communicator for real-time tracking of container shipment and dual-way communication between vehicle drivers or large equipment and control center to accelerate efficiency and productivity.

C-Secure 131 offers a secure and reliable GSM/GPRS communication system, data logger, and industrial enclosure and design. Model C-Secure 131G adds GPS tracking capability.

More than a GPRS Modem or a GPS Tracking Terminal, C-Secure 131 and C-Secure 131G communicate with the C-Secure managed GPRS gateway software to construct a smooth and secure "GPRS Data Tunnel". With C-Secure you can now enable various devices, proprietary serial protocols and digital input/output for communication over the GSM/GPRS network and the Internet...in real time."

C-Secure provides the server, gateway and device data management as a service to you via annual subscription; there is no additional hardware you need to buy. Should you prefer to buy the additional hardware and software, you will receive an easy-to-use API, GPRS gateway software, Windows-based administration manager and console utility. Our solution frees system integrators from complex GPRS and TCP/IP communications.



# SPECIFICATIONS



Optional two dual band GSM/GPRS  
850/1900 MHz or 900/1800 MHz,  
Industrial design with surge protection  
Easy-to-use API (VC/VB/BCB)...

## SPECIFICATIONS - GENERAL

- › Processor Environment: Low power-consumption CPU
- › Power Consumption: <1.4W (GPRS online), 2W (searching GPRS), <360mW (idle)
- › Input Voltage: DC 9 volts up to 24 volts
- › LED Status Indicator: Link/GPRS/RUN
- › Data Logger Capacity: 2MB (will securely log data until a re-connection is made)
- › Firmware Upgrade: through RS-232 port or by OTA
- › Parameter Setting: through RS-232 port or by OTA
- › Virtual COM port
- › Protocol Supported: TCP, UDP, ICMP, PPP

## SPECIFICATIONS - GPRS

- › GPRS Multi-slot: Class 8
- › GPRS Mobile Station: Class B
- › Download/Upload (Max.): 85.6Kbps/21.4Kbps
- › Code Scheme: CS1, CS2, CS3, CS4
- › PPP-Stack: Yes
- › Module Approvals: GCF, R & TTE

## SPECIFICATIONS - I/O INTERFACE

- › Serial port: x1 (RS-232/RS-485 selectable)
- › Digital Input: x3
- › Digital Output: x1 (Relay included)

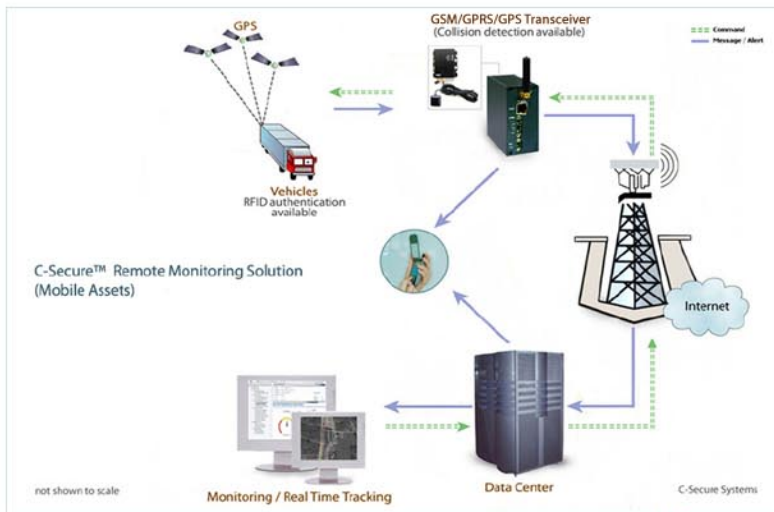


# HOW IT WORKS



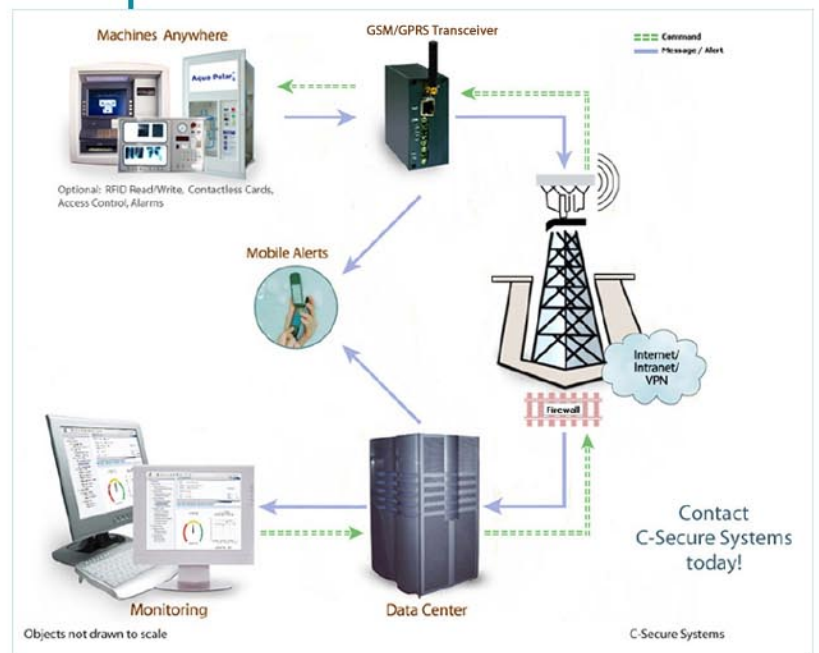
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## HOW IT WORKS



« Vehicle Remote Monitoring & Management

Asset Remote Monitoring & » Management



# FEATURES



Optional two dual band GSM/GPRS 850/1900 MHz or 900/1800 MHz,  
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## FEATURES

- › Optional two dual band GSM/GPRS 850/1900 MHz or 900/1800 MHz
- › 1x RS-232/RS485 serial port + 4x GPIO (3x Digital Inputs & 1x Digital Output)
- › SMS and Voice call (headset jack with microphone function)
- › Continuous and automatic GPRS Link Management (GPRS Data Tunnel)
- › GUI-based Administration Manager
- › Industrial design with surge protection
- › Easy-to-use API (VC/VB/BCB)
- › Real-time Clock (RTC)
- › Built-in Watch Dog
- › Built-in IMB Data Logger
- › Built-in GPS receiver for 16 channels
- › Capable of update configuration or upgrade firmware locally or over the air (OTA)
- › Accept various DC 9~24V input
- › Dimension 99mm x 85mm x 22mm (L x W x H)
- › Weight 155g

# SPECIFICATIONS



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## SPECIFICATIONS - GPS

- > Receiver: L1, 1575.42MHz, C/A Code 1.023MHz chip rate, 16 channels
- > Accuracy  
Position: 10 meters CEP without SA  
Velocity: 0.1 meter/second without SA  
Time: 1 microsecond synchronized to GPS time
- > Datum: WGS-84
- > Acquisition Rate (Average): Snap start <3 sec., Hot start <8 sec.,  
Warm start <38 sec., Cold start <45 sec.,
- > NMEA Protocol: GLL, GGA, RMC, VTG, GSV, GSA

## SPECIFICATIONS - MECHANICAL

- > Regulatory Approvals: CE, FCC, C-Tick
- > Operating Temperature: -20C to 60C / -4F to 140F
- > Storage Temperature: -30C to 80C / -22F to 176F
- > Humidity: 5% - 85% RH
- > Vibration Approval: MIL-STD810F
- > Dimensions (W x H x D) (mm): 91 x 27 x 66  
(85 with wall mount area)
- > Weight (g): 155 / (oz): 5.5
- > SIM Card Holder: 3V/5V
- > DB9 Connector cable: RS-232 x 1
- > GPIO Connector cable: TIP 6 pins x 1
- > GPRS Antenna: x1
- > GPS Antenna: x1
- > Power Input: power cable: TIP 2 pins x 1
- > SMA F External Antenna Connector: Yes
- > Wall-mount: Yes

## ALERNATE MODELS

Model 331 offers 3 serial ports  
(1 selectable / 2 RS232) and 8 GPIO

Model 310 offers 1 selectable port

All models come with or without GPS capabilities

## ORDERING INFORMATION

Contact: [info@csecure.com](mailto:info@csecure.com)