

Waveon 700 Series

Waveon 708 – GSM/GPRS Mobile Data Acquisition and Telemetric Unit



* Product image subject to change

The Waveon 708 is a high performance, cost effective embedded wireless communication device with integrated GSM/GPRS and/or GPS module. Its' application includes inventory tracking, vehicle monitoring and remote data collection. It can be configured to monitor and transmit real time data, various sensor readings and event-triggered alerts to a backend server. The device has digital input/output ports, ADC input ports and RS232 serial ports that can be programmed

to receive data from various sensors, monitor machine activity, and transmit vital data via GSM/GPRS to a control center. With its rugged construction, the Waveon 708 can be installed in obscure places to prevent tampering.

FEATURES

- Low-cost solution
- Compact yet powerful
- Multiple versatile interfaces

SPECIAL FEATURES

- Transmit data wirelessly over GPRS/GSM or serial interface connection
- Event triggered by sensor threshold alert
- Use as GPRS wireless modem for notebook/PDA dial-up
- Data acquisition and on-board logging of events (e.g. door status, temperature, oil and fuel, etc)
- GPRS auto failover to GSM connection

SPECIFICATIONS

PROCESSOR & OPERATING SYSTEM	COMMUNICATIONS & INTERFACE PORTS
<ul style="list-style-type: none"> • MIPS RISC 120MHz Microprocessor • Real Time Proprietary OS 	<ul style="list-style-type: none"> • 1 x 25 pin D-Sub Communications connection: <ul style="list-style-type: none"> ▪ 2 x RS232 ports ▪ 3 x Digital input ports ▪ 1 x Microphone/speaker port ▪ 1 x Buzzer indicator port ▪ 2 x LED indicator port • 1 x 25 pin D-Sub Communications connection: <ul style="list-style-type: none"> ▪ 4 x Digital input ports ▪ 4 x Digital output ports ▪ 2 x Analogue input ports • 1 x 9 pin D-Sub Firmware update port
MEMORY	GPS RECEIVER
<ul style="list-style-type: none"> • 64KB ROM • 20KB SRAM • 512KB Data storage memory 	<ul style="list-style-type: none"> • 12 channels • Accuracy of 10m (CEP) • Cold/Warm/Hot Start Time: 45/38/8 sec.
POWER	GPRS MODEM
<ul style="list-style-type: none"> • Power Supply: 12V Negative Ground • Operating Voltage: 9V ~ 28V • Current Consumption: nominal 300mA @ 12V, max 1A@12V (during GSM/GPRS tx. burst) • Internal Autonomous Power Backup Battery 	<ul style="list-style-type: none"> • Dual Band – 900 / 1800 MHz (Class B) • Class 8 GPRS module • Modes: GPRS, SMS, Voice • SIM card: 3 VDC
INDICATORS	
<ul style="list-style-type: none"> • 1 x Red LED indicator for CPU operation status • 1 x Green LED indicator for GPRS operation status • 1 x Orange LED indicator for GPS status 	
PHYSICAL SPECIFICATION	
<ul style="list-style-type: none"> • Dimension: 154mm x 114mm x 43mm • Weight: 460g • Casing: Aluminum 	

ENVIRONMENTAL SPECIFICATIONS (BASE UNIT)

TEMPERATURE	VIBRATION
<ul style="list-style-type: none"> • Operating temperature: -20°C to +55°C • Storage temperature: -40°C to +85°C 	<ul style="list-style-type: none"> • MIL-STD-810F Basic Land Transportation
HUMIDITY	REGULATION
<ul style="list-style-type: none"> • Relative humidity: 5% to 95% RH 	<ul style="list-style-type: none"> • EMC Regulation: CE

* Specifications subject to change without notice

+ Depend on usage pattern

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