

Product Specification Guide

VFG-500 - FIELD GATEWAY

The VFG-500 streamlines complex IoT deployments, enabling the secure monitoring and control of your assets via our cloud-based platform. It's a single tool that interfaces with all of your connected devices. Simple.



Our VFG-500 is the Swiss Army Knife of industrial field gateways. With ports and compatibility for new and legacy devices, it's future-ready and built tough for any workplace where you need it installed.



The VFG-500 is produced in alignment with best practice global standards for electronic communications and electrical systems. It contains certified module SIM7000G (FCC ID: 2AJYU-SIM7000G | IC: 23761-SIM7000G).

Connect the unconnected



VENTURI

Power In

- 6-24V DC
- Fused
- Reverse polarity + transient protected

Power Out

- Single power rail with output 3 connectors
- Jumper selectable 12/24V
- 1A total output
- Fused
- Battery backed

Battery Backup

- 1 × 18650, standard 1C 2600mAh
- Field changeable
- JEITA Battery temperature protection
- Charging operation between 0-60°C (32-140°F)
- Reduced Charge rate between 0-10°C and 45-60°C (32-50°F and 113-140°F)

Industrial Interfaces

- 10/100 Ethernet
- RS485
- CANBUS (TWA) ISO11898-1
- RS232
- WiFi (802.11 b/g/n)
- Bluetooth 5 Low Energy

Cellular

- Frequency Bands:
 - NB-IoT: B1, B2, B3, B4, B5, B8, B12, B13, B17, B18, B19, B20, B25, B26, B28
 - Cat-M: B1, B2, B3, B4, B5, B8, B12, B13, B17, B18, B19, B20, B25, B26, B28, B39
 - GPRS/EDGE: 850, 900, 1800, 1900MHz
- Data Rate (kb/sec)
 - NB-IoT 34(DL)/66(UL)
 - Cat-M 300(DL)/236.8(UL)
 - EDGE 236.8(DL)/236.8(UL)
 - GPRS 85.6(DL)/85.6(UL)

1 x Relay

- Dry contact (COM / NO / NC)
- Rated (constant) 125VAC @ 0.3A or 30Vdc @ 1A, 2A (carry current)
- Switching (transient) 125Vac, 60Vdc, 1A
- >50 million operations

2 x Digital Inputs

- Pulse Counter or Digital
- > 2.3V detected as logic HIGH
- 24V max

2 × 4-20mA Inputs

- Differential
- 2, 3 or 4 wire configuration support

GPS / BeiDou / GLONASS

- Receiver type
 - 16 – Channel
 - C/A Code
- Sensitivity
 - Tracking 162dBm (GPS)/-157dBm (GLONASS)/TBD (BD)
 - Cold starts -148dBm
- Time-To-First-Fix
 - Cold starts <35s
 - Hot starts <1s
- Accuracy Position <2.5m CEP

Environmental

- Operating temperature: -25°C to 85°C (-13°F to 185°F)
- Ingress Protection: IP30 (optional waterproof and dustproof enclosures available)

Additional Features

- Real Time Clock
- Local Data Logger (16MB flash)
- Internal voltage bus health monitoring
- 4 status LEDs, 1 Power, 1 Network (WAN), 2 configurable
- User Input: One momentary push button for hard reset
- Optional wall mounting bracket
- Durable aluminium enclosure
- Genuine industrial grade phoenix connectors



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