**ioLogik W5340**

*Active GPRS I/O with 4 AlTs, 8 DIOs, and 2 relay outputs*

> GPRS, Ethernet LAN, RS-232/422/485 supported
> Smart Active GPRS connection
> Low power consumption
> Secure wake on call ID
> Active messaging with real-time stamp
> Data logging with SD card
> Unicode Active Messaging with real-time stamp, including SMS, SNMP Trap with I/O status, TCP, email
> ioAdmin and Active OPC Server supported
> Windows/WinCE VB/VC.NET and Linux C APIs

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### Introduction

The ioLogik W5340 is designed for cellular remote monitoring and alarm systems, such as automated river monitoring and pipeline monitoring. The ioLogik W5000 series uses GPRS technology to maximize the coverage of remote monitoring applications. This kind of application needs cellular communications and I/O points connected to various sensors, including rainfall meters, flow meters, and water level detectors, since installing devices is usually difficult. They all enjoy the benefit of the GPRS communication feature of ioLogik W5340.

### Specifications

#### Cellular

**Interface:** GPRS  
**Band Options:** Quad-band 850/900/1800/1900 MHz  
**GPRS Multi-Slot Class:** Class 10  
**GPRS Terminal Device Class:** Class B  
**SMS:** Point-to-Point Text/PDU  
**SIM Control Voltage:** 3 V

#### LAN

**Ethernet:** 1 x 10/100 Mbps, RJ45  
**Protection:** 1.5 KV magnetic isolation  
**Protocols:** Modbus/TCP, TCP/IP, UDP, DHCP, Bootp, SNMP, SNTP

#### Serial Communication

**Interface:** 1 x RS-232/422/485, software selectable (9-pin D-Sub, male or 5-contact terminal block)  
**Baudrate:** 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps

#### Analog Input

**Channels:** 4 analog inputs with differential input  
**Resolution:** 16 bits  
**I/O Mode:** Voltage / Current  
**Input Range:** 0 to 10 V, ±10 V, ±5 V, 0 to 20 mA, 4 to 20 mA  
**Accuracy:**  
  - ±0.1% FSR @ 25°C  
  - ±0.3% FSR @ -10 and 55°C  
**Sampling Rate (all channels):** 100 samples/sec  
**Input Impedance:** 200K ohms (min.)  
**Built-in Resistor for Current Input:** 102 ohms

#### DI/DO Configurable Channels

**Channels:** 8  
**I/O Mode:**  
  - DI or Event Counter (up to 900 Hz)  
  - DO or Pulse Output (up to 100 Hz)

#### Digital Input

**Channels:** Up to 8, source/sink selectable  
**Sensor Type:** NPN/PNP type  
**I/O Mode:** DI or Event Counter (up to 900 Hz)  
**Dry Contact:**  
  - Logic 0: short to GND  
  - Logic 1: open  
**Wet Contact:** (For Source Type)  
  - Logic 0: 0 to 3 VDC  
  - Logic 1: 10 to 30 VDC (DI COM to DI)  
**Common Type:** 4 points per COM  
**Isolation:** 3K VDC or 2K Vrms  
**Counter/Frequency:** 900 Hz, power off storage  
**Digital Filtering Time Interval:** Software selectable  
**Over-voltage Protection:** 36 VDC  
**Poweroff Counter Memory:** 48 bytes

#### Digital Output

**Channels:** Up to 8, sink type, 36 VDC, 200 mA  
**I/O Mode:** DO or Pulse Output (up to 100 Hz)  
**Pulse Wave Width/Frequency:** 10 ms/100 Hz  
**Over-voltage Protection:** 45 VDC  
**Over-current Limit:** 600 mA
### Environmental Limits
- **Operating Temperature:** -10 to 55°C (14 to 131°F)
- **Storage Temperature:** -40 to 85°C (-40 to 185°F)
- **Ambient Relative Humidity:** 5 to 95% (non-condensing)

### Regulatory Approvals
- **EMI:** FCC part 15, CISPR (EN55022) Class A
- **EMS:**
  - IEC 61000-4-2 (ESD), level 2/3
  - IEC 61000-4-3 (RS), level 2
  - IEC 61000-4-4 (EFT), level 2
  - IEC 61000-4-5 (Surge), level 2
  - IEC 61000-4-6 (CS), level 2
  - IEC 61000-4-8 (PM), level 1
  - IEC 61000-4-11 (DIP)
  - IEC 61000-6-2 (ESD), level 2/3
  - IEC 61000-6-4 (EFT), level 2
- **Safety:** UL 508 (Pending)
- **Shock:** IEC 60068-2-27
- **Freefall:** IEC 60068-2-32
- **Vibration:** IEC 60068-2-6

Note: Please check Moxa’s website for the most up-to-date certification status.

### Warranty
- **Warranty Period:** 2 years
- **Details:** See www.moxa.com/warranty

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### Pin Assignment

#### I/O (left to right)

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### Ordering Information

#### Available Models
- ioLogik W5340: Active GPRS I/O with 4 AIs, 8 DIOs, and 2 relay outputs