ioLogik W5340

-Active GPRS I/O with 4 Als, 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
- > SNMP Trap with I/O status
- > 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

The certification logos shown here apply to some or all of the products in this section. For details, see "Regulatory Approvals" under "Specifications" below.



: 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)
- D0 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) **Drv 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 Over-temperature Shutdown: 160°C Output Current Rating: Max. 200 mA per channel Isolation: 3K VDC or 2K Vrms

Relay Output

Channels: 2 Form A (N.O.) relay outputs, 5 A Contact Rating: 5 A @ 30 VDC, 5 A @ 240 VAC, 5 A @ 110 VAC Inductance Load: 2 A Resistance Load: 5 A Breakdown Voltage: 500 VAC Relay On/Off Time: 10 ms, 5 ms (max.) Initial Insulation Resistance: 1G min. @ 500 VDC Expected Life: 100,000 times (Typical) Initial Contact Resistance: 30 milli-ohms (max.) Pulse Output: 20 operation times per minutes at rated load Isolation: 3K VDC or 2K Vrms

Power Requirements

Power Input: 24 VDC nominal, 12 to 36 VDC **Power Consumption:**

• GPRS Always On (Communication): 4.2 W

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)

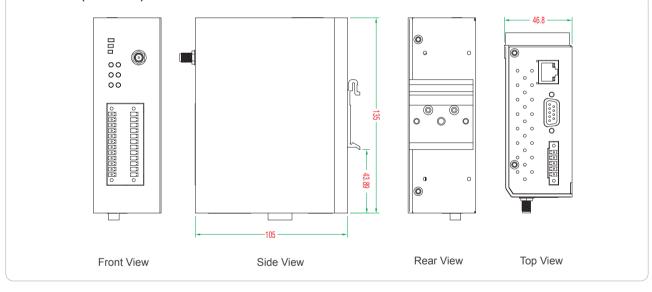
Dimensions (unit = mm)

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 3 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 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



: Pin Assignment

1/0	(left to	right)
-/ - /		

AI0+ AI0- AI1+ AI1+ AI1- DI_COM1 DI00 DI01 BI01 AI2+ AI2+ AI2+ AI2+ AI2+ AI2+ AI2+ AI2+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	AI0+	AI0-		AI1-	COM	D100	DI01	D102	D103	GND			AI2+	AI2-		AI3-	I_COM	D104	D105	D106	D107	GND		1

Crdering Information

Available Models

ioLogik W5340: Active GPRS I/O device with 4 AIs, 8 DIOs, and 2 relay outputs