

ADAM-4581

1-port GSM to RS-232/485 Wireless Data Gateway



Features

- GSM based wireless communication platform
- GUI based configuration tool provided
- Remote download for system configuration
- RS-232/485 interface support
- Built-in digital inputs for event handling
- Auto-dial out support for alarm/events
- GSM data mode communication support
- SMS (Short Message System) communication support
- Supports in-coming call filtering to protect unauthorized access
- Watchdog timer support

Introduction

The ADAM-4581 1-port GSM to RS-232/485 Wireless Data Gateway provides GSM CSD data communication as well as SMS through the interface with the 2-band GSM (900/1800) module for applications in facility management systems, water/wastewater monitoring, pipeline monitoring, unmanned telecommunication facility monitoring, surveillance, and more. The ADAM-4581's interface uses the industrial device standard RS-232/485 with auto-flow control. The ADAM-4581's built-in intelligent SMS communication capability provides communication transparency for RS-232/485 ASCII data conversion. Users are guaranteed SMS for communication is always available. The ADAM-4581 converts ASCII data or commands into a message in SMS or GSM data mode and can also convert this message back to an ASCII data/command at another site's ADAM-4581. If an urgent alarm or event happens in a field site, through the ADAM-4581's eight digital inputs, the ADAM-4581 could instantly send a short message to a control station, mobile phone or wherever else the alert is needed.

Specifications

- **GSM Module** 900/1800 Band
- **Antenna connector** SMA type, 2dBi omni antenna included
- **GSM transmission speed** 1200 ~ 9600 bps
- **Serial port** 1 port RS-232/485 (RS-485 with auto-flow control)
- **RS-232/485 connector** Male DB-9
- **Serial transmission speed** 1200 bps ~ 115.2 Kbps
- **Digital Input** 8 channels
Dry contact: Logic level 0: Close to GND
Logic level 1: Open
Wet contact: Logic level 0: +2 V (max.)
Logic level 1: +4 V ~ +30 V
- **Operation Mode** SMS, CSD (Analog, Digital (ISDN))

- **Built-in Watchdog Timer** Yes
- **LEDs for diagnostics** 6 x LED for power supply, GSM status, GSM communication (TX/RX) and RS-232/485 communication (TX/RX)
- **PC-based remote configuration utility** Windows 98/NT/2000/XP
- **Mounting** DIN-rail, Wall mount
- **Power Supply** +10 ~ +30 V_{DC}
- **Dimensions (L x M x H)** 60 x 112 x 25 mm
- **Power Consumption** 1.0 W (at unregulated +10 ~ +30 V_{DC})
- **Operating Temperature** 0 ~ 70° C
- **Relative Humidity** 0 ~ 95%

Ordering Information

- **ADAM-4581** 1-port GSM to RS-232/485 Wireless Data Gateway

System Architecture

