

ENVIROMUX-4GU-IND

Industrial USB GSM Modem Technical Specification



>>| Product Introduction

The ENVIROMUX-4GU-IND Modem is a complete wireless USB data modem providing global cellular network connectivity, where cellular signal available, with 4G/3G/2G fallback capabilities for ensured access to the internet anywhere.

The modem is an easy to install productivity tool designed to provide maximum accessibility to the mobile professional allowing quick access to the internet for real-time business transactions, email, web browsing and more.

The ENVIROMUX-4GU-IND is widely used in more than 50 countries and regions, and more than twenty industrial fields, such as power control, water schedule, traffic, oil field, weather forecast, environmental protection, street lamp control, post, bank and many other areas.

>>| Hot Spot

Built-in 2G/3G/4G industrial cellular module, insert SIM/UIM card to work directly;

Built-in sim card slot;

Broadband M2M communications

SIM failover/standby APN

3G/4G failover for fixed line broadband connections

Rapid service deployment applications

Supports AT commands

USB port

>>| Typical Diagram



>>| Industrial Application

- Remote Data Monitor and Control
- CCTV, security surveillance
- Water, gas and oil flow metering and schedule
- AMR (automatic meter reading)
- Power station monitoring and control
- Remote POS (point of sale) terminals, ATM,
- Traffic signals monitor and control, Traffic info guidance
- Oil field, weather forecast, environmental protection, street lamp monitoring and control
- Early Warning of Mountain Torrent
- Fleet management
- Power distribution network supervision

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- Power distribution network supervision
- Central heating system supervision
- Weather station data transmission
- Hydrologic data acquisition
- Vending machine
- Telemetry, SCADA
- Vehicle logistics and diagnostics controlling
- Parking meter and Taxi Monitor
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)

>>| Features

- Auto install software
- Easy connection, directly to the PC or laptop by using a provided extension cable
- High speed with 4G LTE 100Mbps and back compatible to HSPA+ data (up to 42Mbps downlink and 5.76Mbps uplink) and backward compatible with EDGE/ GPRS/ GSM data connectivity (up to 216~384 Kbps)
- Visual feedback on connection status with the LED and the easy connection software, including signal strength indication
- Compatible with nearly all modern desktop and laptop PC's equipped with Microsoft OS (2000, XP, XP Pro, Vista, 7)
- Industrial design with intelligent software capabilities, making it a reliable cellular solution for data collection and transmission
- Plug-and-play design with easy-to-use software interface for easy integration
- Easily manage and control distributed remote devices over the air
- Built-in Watch Dog
- Real-time Clock (RTC)
- Remote Data Monitor and Control
- Always-On-Line
- Easy-to-use
- Industrial design with surge protection
- Local and remote configuration over the air
- No need to build expensive fixed line network, saving cost substantially
- EASY TO INSTALL AND USE

The ENVIROMUX-4GU-IND Cellular Modem sets up in minutes, making it easy to use while on-the-go. Set up a wireless network with the ENVIROMUX-4GU-IND and provide your users with a secure, high-speed connection to the Internet virtually anywhere within a wireless broadband network.

>>| Specification

Wireless	
Mobile Networks	<ul style="list-style-type: none"> • UMTS WCDMA (HSUPA/HSDPA/HSPA/HSPA+) • GSM EDGE • GSM GPRS
Cellular Frequency	<ul style="list-style-type: none"> • UMTS/HSPA/HSUPA/HSPA/HSPA+ (WCDMA/FDD) 850/1900/2100 MHz or 850/900/1900/2100Mhz • Quad-band EGSM 850/900/1800/1900
Data	
Bandwidth	<ul style="list-style-type: none"> • HSDPA Downlink 7.2 Mbps Uplink 384k bps • WCDMA/UMTS Downlink/Uplink 384 kbps • EDGE Downlink 236,8 kbps Uplink 118 kbps • GPRS Downlink 85.6 kbps Uplink 42.8 kbps • CDMA1x Downlink/Uplink 153.6kbps • CDMA EVDO Rev A: 3.1Mbps downlink, 2.4Mbps uplink Rev O: 2.4Mbps downlink, 153.6kbps uplink • 4G LTE Max. 100Mbps downlink, 50Mbps uplink
Interface	
Antenna	50Ω SMA female interface, external
Serial port	DB9 (RS232/RS485 optional)
Led	Power indicator Data indicator
UIM/SIM	1.8V/3V
USB	USB 2.0 female

Power	
Power supply	DC7V-26V , typical DC9V1A
Power consumption	Peak: 700mA@+9VDC Average: 85mA@+9VDC Idle: 30mA@+9VDC
Software	
OS	Windows 7, Vista, XP, 2000 Mac OS Linux
At command	Support at command; Packed with GUI software
Physical	
Operating Temperature	Work temperature: -30°C to 80°C Storage temperature: -40°C to 90°C
Humidity	95% Maximum (Non-condensing)
Dimensions	(L x B x H) 87mm x 73mm x 23mm (3.43" x 2.87" x 0.91")
Weight	Item: 400g Packaging: 1.6 lbs
Electromagnetic compatibility	anlistatig test: Class 3 Radio electromagnetism test: Class 3
Others	
Package Contents	<ul style="list-style-type: none"> • ENVIROMUX-3GU-IND Modem • USB cable • Power Adapter • Antenna • CD-ROM with Product Documentation