

# F1103 GPRS MODEM TECHNICAL SPECIFICATION









F1103 GPRS MODEM is a kind of cellular terminal device that provides SMS, dial-up and CSD function by public GPRS network.

It adopts high-powered industrial cellular module and supports RS232 port that can conveniently connect one device to a cellular network, allowing you to connect to your existing serial device.

It has been widely used on M2M fields, such as intelligent transportation, smart grid, industrial automation, telemetry, finance, POS, water supply, environment protection, post, weather, and so on.



#### **Features and Benefits**

# **Design for Industrial Application**

- ♦ High-powered industrial cellular module
- ♦ Housing: iron, providing IP30 protection.
- ▶ Power range: DC 5~35V

# Stability and Reliability

- ◆ RS232 port: 15KV ESD protection
- ◆ SIM/UIM port: 15KV ESD protection
- ◆ Power port: reverse-voltage and overvoltage protection
- ◆ Antenna port: lightning protection(optional)

# **Standard and Convenience**



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- ◆ Support standard RS232 port that can connect to a serial device directly
- Provide dial-up software that can make it always online
- Provide SMS tool software
- Support standard AT command

### **High-performance**

- ♦ Support SMS, dial-up and CSD function
- ◆ Support APN/VPDN

# **Specifications**

#### **Cellular Specification**

Item	Content
Cellular Module	Industrial cellular module
Standard and	EGSM900/GSM1800MHz,
Band	GSM850/900/1800/1900MHz(optional)
	Compliant to GSM phase 2/2+
	GPRS class 10, class 12(optional)
Bandwidth	85.6Kbps
TX power	GSM850/900: <33dBm
	GSM1800/1900: <30dBm
RX sensitivity	<-107dBm

# **Interface Type**

Item	Content
Serial	1 RS232 port, 15KV ESD protection
	Data bits: 5, 6, 7, 8
	Stop bits: 1, 1.5, 2
	Parity: none, even, odd, space, mark

Email: business@four-faith.com

Tel: +86-17750019379

Web: www.four-faith.hk

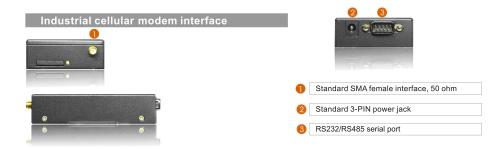
Add.:11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.



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	Baud rate: 110~230400 bps	
Indicator	"Power", "ACT", "Online"	
Antenna	Standard SMA female interface, 50 ohm, lighting	
	protection(optional)	
SIM/UIM	Standard 3V/1.8V user card interface, 15KV ESD protection	
Power	Standard 3-PIN power jack, reverse-voltage and overvoltage	
	protection	

Operating	-25~+65°C (-13~+149°F)
Temperature	
Extended	-30~+75°C (-22~+167°F)
Operating	
Temperature	
Storage	-40~+85°C (-40~+185°F)
Temperature	
Operating	95% ( Non-condensing)
Humidity	



#### **Power Input**

Item	Content
Standard Power	DC 12V/1.5A
Power Range	DC 5~35V
Consumption	<200mA (12V)

# **Physical Characteristics**

Item	Content
Housing	Iron, providing IP30 protection
Dimensions	91x58.5x22 mm
Weight	195g

#### **Environmental Limits**

Item	Content
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