

iWOW TR-800 GSM/GPRS



Coupled with rich features comparable to the market leader, iWOW offers competitive pricing and comprehensive support infrastructure for our wireless modular solutions tailored for a wide range of Machine-to-Machine applications.

Incorporating both GSM and GPRS solutions, the TR-800 module creates a highly versatile platform to facilitate application design and development. The extremely slim, small and lightweight TR-800 GSM/GPRS module is designed to fit your designs and integrations.

The Quad-band feature enables seamless communication on a global platform while technologies like TCP/IP and MMS stacks can be embedded for the convenience of future firmware upgrade.

The footprint of the TR-800 module is designed to accommodate rich features and it is supported by a powerful integrated development environment. This consists of a comprehensive Development Starter Kit that includes the TR-800 hardware as well as an extensive user guide to rapidly create your M2M solutions.

Key Specifications

Quad-band for wide coverage and global access

GPRS Multislot Class 10, Class B

Size : 41.2mm x 36.0mm x 3.0mm

Key Features & Benefits

- **Extremely Slim** – Measuring a mere 3mm in thickness, the TR-800 features a slim profile that allows your product to adopt a slim form factor.
- **Extremely Lightweight** – Weighing only 8.3gmm inclusive of shielding, the TR-800 is a nifty, lightweight module that can be easily integrated into any environment.
- **Dual antenna connection options** – The TR-800 provides two options for mounting the GSM antenna. It can be mounted via on-board micro-miniature connector or directly on the antenna soldering pad.
- **Enhanced Reliability** – Equipped with industry standard communication protocol like TCP/IP and MMS which can be embedded to simplify the data transfer process.

Applications

The TR-800 module is a cost effective solution that can be deployed across a wide range of industrial applications as well as mobile and wireless devices.

- Mobile Computing
- Wireless Mobile – Automotive, Fleet Management, Smart Phone
- Wireless Fixed – Emergency Services, Security & Surveillance, Healthcare, Traffic Control, Industrial System, Vending & Retail, Information Display, Fixed Telephony, Automated reading meter.

Discover more about the TR-800 at www.iWOW.com.sg or contact us at sales@iWOW.com.sg

Product Specifications

General Information

Quad-band (GSM 850 / EGSM 900 / DCS 1800 / PCS 1900)

Compliant to ETSI GSM Phase 2+ standard

Power supply input range 3.4V – 5.5V

Very low current consumption, optimized for battery-supplied applications

Size: 41.2mm x 36.0mm x 3.0mm

Weight: 8.3 (inclusive of shielding)

Operating temperature: -20°C to +55°C

Extended operating temperature (Reduced Specifications): -40°C to +85°C

On-board memory: 3 Megabytes (estimated)

GPRS Packet Data

Device class B and Multi-slot class 10

Coding schemes: CS1 – CS4

Maximum download speed: 85.6 kbps

Embedded TCP/IP and MMS (optional)

GSM Functionality

CSD: Asynchronous, transparent and non-transparent up to 14.4 kbps

Voice: Half Rate (HR), Full Rate (FR) and Enhanced Full Rate (ERF)

Audio: Telephony, emergency call, echo cancellation and noise reduction

Adaptive Multi Rate (AMR)

SMS: Text and PDU mode, Point-to-point (MO/MT), Cell Broadcast

Fax: Group 3 (Class 2.0)

Interface

2 UART interfaces

I²C bus interface

1 parallel interface

1.8V and 3.0V SIM card support (5V SIM with external level shifter)

1 digital and 2 analog audio interfaces

5X5 keypad interface

8 General Purpose I/O (GPIO)

Battery charging interface

1 status LED output

13 MHz clock output

Micro-miniature RF receptacle for antenna connection

RF connection pads

Host Protocol: AT Commands

Telephony and data services API

Approval

R&TTE

FCC

GCF

PTCRB

CE

RoHS Compliant