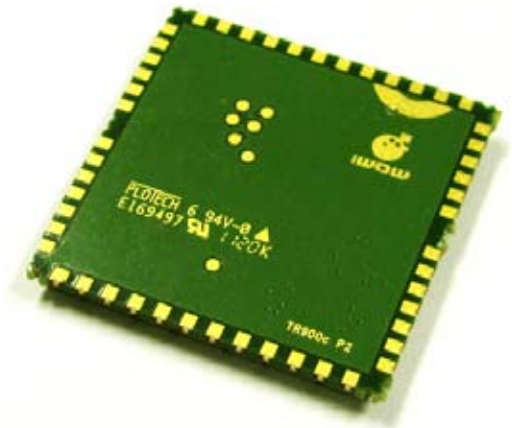


iWOW TR-900C

Sleek Cellular Module For Simple, Low Cost Integration



Simple connectivity with easy integration. iWOW TR-900C GSM/GPRS module, using a castellated form factor, is ideal for a wide range of Machine-to-Machine (M2M) applications such as security & surveillance, automated meter reading, vending & retail and fleet management.

The TR-900C module is designed for high volume, cost efficient production. Using a castellated form factor, it offers fully automatic assembly processes using a standard pick and place assembly line. QC process is also made easy as the module mounting can be visually inspected. In addition, the solution cost is further reduced without connector compared to conventional pin-connector mounting.

This compact module features firmware stacks such as TCP/IP, UDP/IP, and FTP. TR-900C module, using a reliable connection has an extended temperature range and an enhanced power management with selectable operation mode for power sensitive and demanding M2M applications. With a comprehensive support infrastructure, the TR-900C module is designed with industry-leading performance, unrivalled upgradeability and a robust platform designed for easy development of customised applications.

Key Features & Benefits

- Quad-band feature enables seamless communication on a global platform.
- Value-added protocol stacks like TCP/IP UDP/IP, FTP, CMUX simplify the data transfer process.
- Castellated form factor offers SMT mountable for automated assembly.
- Tx/Rx burst indication offer interference mitigation design with co-exist RF technology.
- Global regulatory compliances at modular level to ease the process and lower the cost of final product certification

Key Specifications

Quad-band for global coverage

Value added stacks, TCP/IP, UDP/IP and FTP

Castellated pins for robust connections

Low power consumption

Extended temperature: -40°C to +85°C

Product Specifications

General Information

Quad-band :GSM 850/EGSM900/DCS1800/PCS1900
Compliant to ETSI GSM Phase 2/2+ standard
Size: 27mm x 27mm x 3mm
Weight: < 5 g
ROHS and REACH Compliant
Host Protocol:
AT Commands compliant to GSM 07.05, GSM 07.07 & GSM 07.60
Normal Operating Temperature: -20°C to +55°C
Extended Operating Temperature: -40°C to +85°C

Data Features

GPRS / EDGE-RX
Mobile Station Class B
Multi-slot Class12
Coding Schemes CS1 - CS4
PBCCH Support
PCCCH Support
Embedded TCP/IP and UDP/IP
CMUX : GSM 07.10 Multiplexing Protocol

GSM Audio / Voice Features

Telephony
Emergency Call
Half Rate (HR), Full Rate (FR) & Enhanced Full Rate (EFR)
Adaptive Multi Rate (AMR)
Hands-free Operation
Echo Cancellation
Noise Reduction
Dual Tone Multi Frequency Function

GSM Supplementary Services

Call Forwarding
Call Barring
Multiparty
Call Waiting, Call Hold
Unstructured Supplementary Services Mobile Originated Data (USSD)
Calling Line Identification Restriction (CLIR)
Closed User Group (CUG)
Advice of Charge (AOC)

Interface

50-pin Castellation Pad:
Antenna Pad
Power Supply
Back-up Battery
SPI with 2 Addresses
RTC
1 Serial Link
Tx/Rx Burst Indicator
USB 2.0
3V/1.8V SIM
SIM Detection
GPIOs
Activity Status Indication
Analog to Digital Converter