

M33

Quad Band GSM/GPRS Module



Wireless makes smarter



Quad Band



GPRS Multi-slot Class 12



Extended Temperature Range -45 °C to +85 °C



Revolutionary Camera Interface



Embedded TCP/IP and HTTP Protocols



Embedded MMS, FTP and SMTP Client



PCM



Optional with SIM holder or SIM IC



Micro SD Card



Serial Port Multiplexer (GSM0710)



Quectel Enhanced AT Commands



The M33 is a complete Quad-band GSM/GPRS module with 8-bit CCIR656, CMOS camera sensor interface which supports YUV422/ YUV411/ YUV420 data format and up to 300K pixels CMOS camera input. It can be embedded in security device to implement photo taking, JPEG compression and MMS transfer. Customer can easily develop the whole security equipment through Quectel solution.

Featuring an industry-standard interface, the M33 delivers GSM/GPRS 850/900/1800/1900MHz performance for voice, SMS, data, and fax in a form factor with extremely low power consumption. With a size configuration of **40mm x 32.2mm x 6mm** and four soldering pins, M33 can be fixed in host PCB easily. A 300k pixels CMOS camera or CCIR656 interface digital video can be connected to M33 directly. Customer application implements the photo handling and transfer function through AT commands.

- Quad-band GSM/GPRS module with a size of 40mmx32.2mmx6mm
- Support 300k pixels CMOS camera and CCIR656 digital video interface
- JPEG compression
- MMS protocol
- 100-pin B2B connector to supply rich interface resource
- 4 soldering pins for easy fixing in host PCB
- Embedded powerful Internet service protocols
- Based on mature and field-proven platform

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Quad Band GSM/GPRS Module

General Features

Quad-Band	850/900/1800/1900MHz
GPRS Multi-slot Class	Class 12
GPRS Mobile Station	Class B
Compliant to GSM Phase 2/2+	Class 4 (2W@850/900 MHz) Class 1 (1W@1800/1900MHz)
Supply Voltage Range	3.4~4.5 V 4.0V nominal
Low Power Consumption	1.1mA @ DRX=5 0.7mA @ DRX=9
Operation Temperature	-45 °C to +85 °C
Dimensions	40mm x 32.2mm x 6mm (excluding shielding pins)
Weight	Approx 8g
Control via AT commands (GSM 07.07, 07.05 and other enhanced AT Commands)	
SIM Application Toolkit	
Mux Driver	

Specifications for Fax

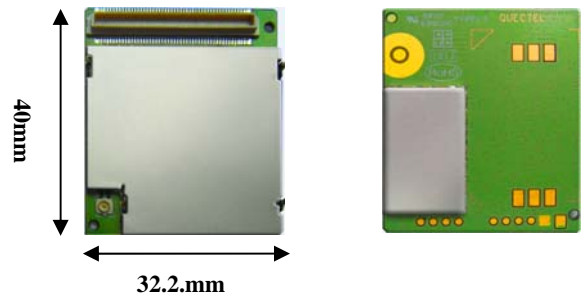
Group 3, Class 1 & Class 2

Specifications for Data

GPRS Class 12	max. 85.6 kbps (uplink & downlink)
PBCCH Support	
Coding Schemes	CS 1, 2, 3, 4
CSD	up to 14.4 kbps
USSD	
Non Transparent Mode	
Protocols	PPP, TCP/UDP, HTTP FTP, MMS, SMTP

Specifications for SMS via GSM / GPRS

Point-to-point MO and MT	
SMS Cell Broadcast Text and PDU Mode	



Specifications for Voice

Speech Codec Modes	HR, FR, EFR AMR FR, AMR FR
Echo Arithmetic	Echo Cancellation Echo Suppression Noise Reduction

Hands-free Operation

Camera Compatibility

Control via AT Commands

Sensor Model	OmniVision OV7725 in default, other models can be customized
Sensor Interface	CCIR656, CMOS
Max Picture Size	VGA 640x480 pixels
Output Format	JPEG

Interfaces

100-pin B2B Connector

Power Supply

External SIM	3V/1.8V
Embedded SIM IC	(Optional)
Embedded SIM Holder	(Optional)

Micro SD Card Interface

RTC Backup

Analog Audio Interfaces Two channels

CMOS Camera /CCIR656 Interface

PCM Interface

SPI (Optional)

I²C (Optional)

Serial Ports Two

Antenna Connector and Solder Pad

Charge Interface (Optional)

Contact Us

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