

CLM302

Cellular Add-on



The CLM302 is a penta-band, 3G, dual-SIM cellular add-on that allows the **FORCE** and **FORCE Lite** alarm systems¹ to communicate over a cellular network. The add-on is mounted on the control panel's circuit board and is supplied with an antenna.

The CLM302 is based on Quectel² UG96 module. The module offers a maximum data rate of 7.2Mbps downlink and 5.76Mbps uplink.

The CLM302 supports GSM/GPRS/EDGE and UMTS/HSPA/HSUPA networks.

PIMA Electronic Systems' portfolio includes a wide selection of hardwired and wireless detectors, sensors and sirens for both security and safety purposes. Our products are developed with uncompromising quality, ease of installation, and operation experience.

PIMA's wireless detectors integrate the FastLink technology, an advanced encrypted wireless detection technology that ensures maximum security.

PIMA's detectors are a perfect solution for the business as well as for the home markets.

The **FORCE** and **FORCE Lite** alarm systems interface with a wide selection of expanders and peripherals, enabling the customer to expand the system as needed.

Main features

- Dual-SIM³
- Supports various cellular operators
- Requires SIM card (not supplied)
- Status LEDs

¹ Version 1.2 and higher

² www.quectel.com

³ (U)SIM card not supplied

Technical Specifications

- Channels: GPRS/SMS/Voice
- (U)SIM Type: Nano
- Dual-(U)SIM. Master/Backup set by the control panel
- Antenna Cable Length: 2m
- Input Power (by the control panel): 6-20VDC
- Current Consumption: Min. 30mA, Max. 200mA
- Sizes: 9 X 7 X 2.5 cm
- Weight: 335gr
- CE Compliance
- Operating Temperature: -10 to +55 °C
- Humidity (Max.): 93% R.H., Non-condensing.
- Data
 - HSUPA: Max. 5.76Mbps
 - HSDPA: Max. 7.2Mbps
 - UMTS: Max. 384Kbps (DL), Max. 384Kbps (UL)
 - EDGE: Max.296Kbps (DL), Max 236.8kbps (UL)
 - GPRS: Max. 107Kbps (DL), Max. 85.6Kbps (UL)
 - CSD: 14.4 Kbps
- Approvals
 - RoHS Compliant
 - CE/GCF (Europe)
 - DoC (Russia)
 - IFETEL/Movistar (Mexico)
 - ICASA (South Africa)
 - Anatel (Brazil)
 - Telefonica (Global)
- Sensitivity
 - -110dbm@UMTS 800/850/900/2100
 - -109.5dbm@UMTS 1900
 - -109.5dbm@GSM 850
 - -108.5dbm@EGSM 900
 - -110dbm@ DCS 1800
 - -108dbm@PCS 1900
- HSUPA: Release 7 (Category 6+8)
- EDGE: Multi-slot Class 33
- GPRS: Multi-slot Class 33
- UMTS: Release 99/7
- GSM: Release 99/4
- 3GPP TS 27.007, 3GPP TS 27.005
- Enhanced AT Commands
- Bands
 - 800/850/900/1900/2100MHz @UMTS
 - 850/900/1800/1900MHz @GSM
 - HSUPA Release 7 (category 6)
 - HSDPA Release 7 (category 8)
 - EDGE Multi-slot Class 12
 - GPRS Multi-slot Class 12
 - UMTS Release 99/7
 - GSM Release 99/4
- Voice
 - Speech Codec Modes: HR, FR, EFR, AMR, AMR-WB
 - Echo Arithmetic: Echo Cancellation, Noise Reduction
- Electrical Characteristics
 - Output Power:
 - Class 3 (24dBm +1/-3dB) for UMTS bands
 - Class E2 (27dBm±3dB) for GSM850 & EGSM900
 - Class E2 (26dBm±3dB) for DCS1800 & PCS1900
 - Class 4 (33dBm ±2dB) for GSM 850/900
 - Class 1 (30dBm ±2dB) for GSM 1800/1900
- Power consumption
 - 50µA@power off
 - 1.1mA@GSM sleep, DRX=9
 - 1.7mA@UMTS sleep, DRX=9
 - 240mA@GSM voice (max.)
 - 490mA@UMTS voice (max.)
 - 520mA@GPRS data (max.)
 - 500mA@EDGE data (max.)
 - 580mA@HSDPA (max.)
 - 540mA@HSUPA (max.)

Ordering Information

- CLM302: P/N 8300045



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For product information
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