

2. Product Concept

The M10 is a Quad-band GSM/GPRS engine that works at frequency bands of GSM850, EGSM 900, DCS1800 and PCS 1900. The M10 features GPRS multi-slot class 12(default)/ class 10/class8

and supports the GPRS coding schemes CS-1, CS-2, CS-3 and CS-4.

The M10 is an SMD type module with 64-pin pads and a tiny profile of 29mm x 29mm x 3.6 mm (the thickness of PCB is 1.6mm), which can fit into almost all customers' applications. It provides all hardware interfaces between the module and customer's host board.

- z External controller can communicate with M10 through its main UART port.
- z Two audio channels include two microphone inputs and two speaker outputs, which can be easily configured by AT command.

The module is designed with power saving technique so that the current consumption could be as low as 0.7mA in SLEEP mode.

TCP/IP protocol stack has been integrated in the module. Moreover, extended TCP/IP AT commands have been developed for customer to use the internal TCP/IP protocol easily, which is very useful for data transfer application.

The module is fully RoHS compliant to EU regulation.