



# Quectel Wireless Solutions

## Wireless Module Expert



# M95 GSM Module Presentation

2012-1-13

## □ **General Description**

Target Applications

Highlights

Hardware Architecture

Software Advantage

Enhanced AT Commands

Mechanical Dimensions

## □ **M95 vs. Competitors' Products**

M95 vs. BXS2 & XE865

## □ **Support Package**

Technical Material Package

- VTS
- Industrial PDA
- Personal Tracking
- Wireless POS
- Smart Metering



Ultra **Small** and **Thin**

19.9mm x 23.6mm x 2.65 mm

**High** Data Speed

GPRS Multi-slot Class 12

Extremely **LOW** Standby

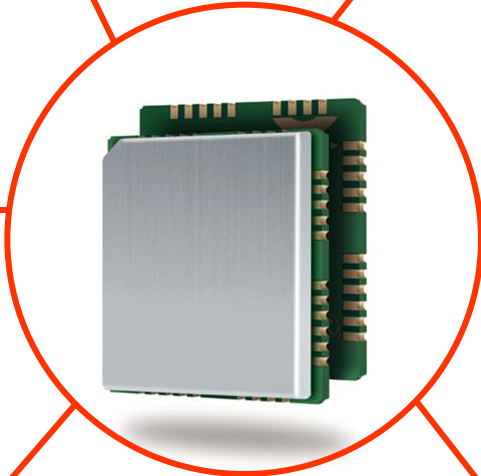
**Current Consumption**

0.9mA @ DRX=5

**Wide** Working

**Temperature Range**

-40 °C to +85°C

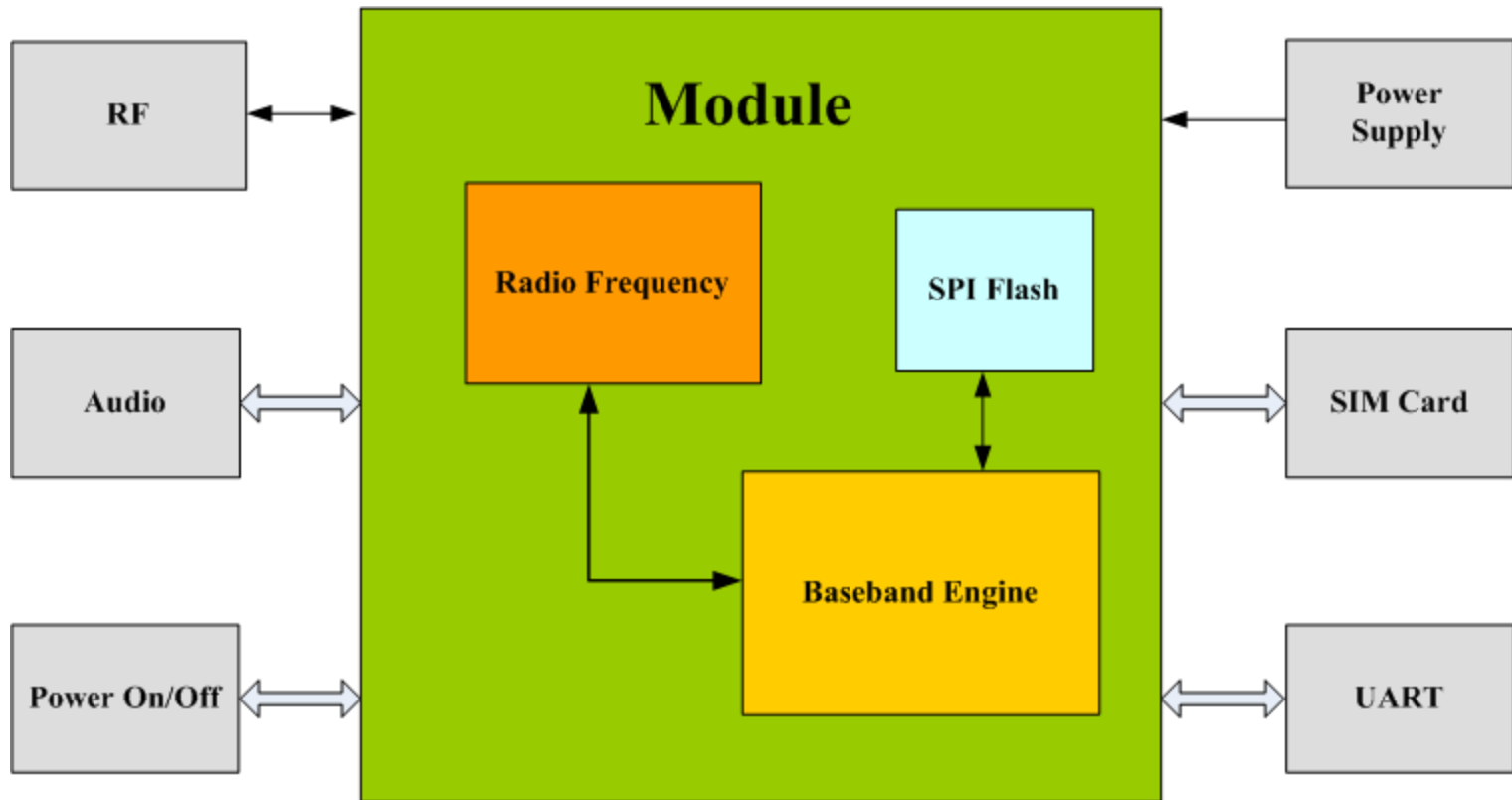


**Quad**-band

850/900/1800/1900MHz

**Humanization Design**

**Multi** Fool-proof / Flexible layout





## Quality Guarantee

- ☑ **Reliable network protocol**
- ☑ **Steady flash protected mechanism**
- ☑ **Superior audio algorithms**



## Internet Service

- ☑ **TCP/IP**
- ☑ **UDP**
- ☑ **FTP**
- ☑ **HTTP**

- Standard V.25ter AT commands
- GSM 07.07
- GSM 07.05 (SMS)
- GPRS AT commands in accordance to GSM 07.07
- TCP/IP stack AT commands
- STK (SIM Application Toolkit)
- Quectel defined AT commands (Enhanced Functions)

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- **Support Package**

  - Technical Material Package



## M95 vs. BxS2 & XE865

Product Features		M95	C-company BXS2	T-company XE865
Size (mm)		19.9×23.6×2.65	18.8×26.7×2.7	22×22×3.0
Package		LCC, easier soldering and production	LGA package	BGA package, difficult soldering
Current consumption	Sleep mode	0.9mA @ DRX=5 0.7mA @ DRX=9	1.5mA @ DRX=5 1.2mA @ DRX=9	1.5mA @ DRX=9
GPRS		Class 12: max. 85.6 kbps (uplink & downlink)	Class 10: max. 42.8 kbps(uplink), 85.6kbps(downlink)	Class 10: max. 42.8 kbps(uplink & downlink)
Sensitivity		-108.5dBm	-107dBm	GSM850 & GSM900: -107dBm DCS1800 & PCS1900: -106dBm
Switch-off normal method		By "PWRKEY" or AT command	Only AT command	Only AT command
Audio interface		2 channel	1channel	1channel

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➤ **Technical Materials Package**

- Hardware, software, specification
- Application notes package
- Debug tool, download tool, test tool, EVB package
- Approvals & test report package



**M95 EVB KIT**

➤ **Development Tool**

• **Interfaces**

- ✓ 2 RS-232 interfaces
- ✓ Power supply
- ✓ Antenna interface
- ✓ Debug UART interface
- ✓ Handset interface
- ✓ Earphone interface

• **Features**

- ✓ Network status LED
- ✓ Power key
- ✓ Emergency off key



***Thank You!***

info@quectel.com