

SAR-Statement

The SAM3S is a UMTS based modem. It provides EDGE, GSM, GPRS, WCDMA and HSPA+ connectivity. This modem is based on the Qualcomm MDM6200A baseband processor, and designed for Machine-to-Machine applications. This modem does not have an integral antenna.

Depending on customers' requests, the SAM3S modem may/may not be supplied with an antenna. In the case of customers wanting to acquire the antennas themselves, the antenna specification is included in the User Guide.

A typical application will require the SAM3S to be connected to an external five-band 850/900/1800/1900/2100MHz antenna as described in the User Guide.

Based on the standards EN50385 and EN50383, a minimum safety operating distance has been calculated and stated in the User Guide.

Safety distance requirement:

The SAM3S modem should NOT be operated when a person is within 203mm (8 inches) of the modem.

Approvals

- A-Tick
- CE-0682
- Telstra network approval



Smart SAM3S GSM/GPRS/EDGE UMTS/HSPA+ Modem

General Features

- QuadBand GSM/GPRS/EDGE 850/900/1800/1900MHz
- Five-band UMTS/HSPA+ 800/850/900/1900/2100MHz
- Standard 3GPP AT commands TS 27.007
- Output power:
 - Class4@EGSM850/900MHz
 - Class1@GSM1800/1900MHz
 - Class3@UMTS
- Input voltage : 5V to 30V
- Current consumption:
 - Standby : 30mA @ 12V
 - Average InUse (3G) : 250mA @ 12V
 - Average InUse (2G) : 205mA @ 12V
- Support 3V/1V8 U-SIM card
- Dimension : 79mm x 52mm x 24mm/19mm
- Weight: 60g (approx.)
- Operating temperature : -30C° to +85C°
- RoHS compliant

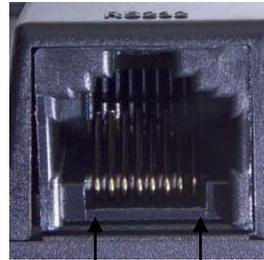
Data features

- GSM Circuit-switched data, asynchronous, transparent and non transparent modes
- GPRS packet-switched data class 10, P channel supported, CS1 to CS4
- Group 3 (class 2) fax
- SMS mobile terminate/Originate and cell-broadcast

The Serial RS232 Port (RJ45 socket) 300bps-230400kbps

Pin Signals Description

- 1 VIN Input voltage 5Vdc - 32Vdc
- 2 DCD Data Carrier Detect
- 3 DTR (or RI)
- 4 GND Common Ground
- 5 RXD Serial Data out of SAM3S
- 6 TXD Serial Data into SAM3S
- 7 CTS Clear to Send
- 8 RTS Ready to Send



Pin8

Pin1

The USB 2.0 Port (USB MiniB socket)

Pin Signal

- 1 Vusb
- 2 D-
- 3 D+
- 4 N/C
- 5 GND



Pin5

Pin1

Important Note: The RS232 and the USB ports cannot be operated simultaneously, only one port at a time.

The Antenna Port

FME-Male 50Ω



SAFETY

The following safety precautions must be observed whenever the SAM3S modem is in operation or in service. Failure to comply with these precautions violates the safety standards of the design, manufacture and intended use of the product.

- **Switch off the Smart SAM3S modem**
 - In hospitals or places where medical equipment used
 - In an aircraft
 - Refueling points
 - Explosive areas
- **Restricted use of the Smart SAM3S modem**
 - Near any chemical plant
 - Near any fuel depot
 - Areas with mobile phone warning sign
 - Respect national regulations on the use of cellular devices in vehicles. Road safety always comes first

The SAM3S modem receives and transmit radio frequency energy while switched on, therefore interference can occur if the SAM3S is near TVs, radios, PCs or any inadequately shielded equipment.



This symbol on the product indicates that this product shall not be treated as household waste . It must be placed at an appropriate collection point for the recycling of electrical and electronic equipments.

By ensuring the correct disposal of this equipment, it will help the environment and human's health. The recycling will help to conserve the natural resources.