

Intercel<sup>TM</sup>  
go anywhere communication and data transfer

**30** YEARS...  
OF AUSTRALIAN  
ENGINEERING

# SAM4S

## M2M/IoT Cat 1 LTE Modem



SAM4S is the latest Modem from Intercel, featuring cutting edge Cat 1 LTE 4G technologies. These new technologies are designed for high-speed 4G connectivity and are specifically aimed at M2M and metering applications. Intercel was the first company to offer a remote meter reading modem in Australia and we have continued to design our solutions that have been utilized across the M2M/IoT industry worldwide. SAM4S represents the latest and most modern version of our proven and reliable SAM modem family.

## Product Features

The SAM4S is fitted with a USB port and a serial RS232 port for connectivity and can be controlled using AT commands. The SAM4S runs Intercel's TCP/IP stack for remote connectivity and features an internal diversity antenna.

SAM4S features 3G WCDMA fallback, catering for installations where 4G has not yet been made available.

- 1 – Mini USB 2.0 Port
- 2 – RJ45 Serial RS232 Port
- 3 – FME Male Antenna Port
- 4 – SIM Card Holder
- 5 – Status LED

-  Fleet Management
-  Monitor Security Systems & Alarms
-  Weather Station
-  4G Communication Device
-  Water Quality & Levels Monitoring
-  Remote Monitoring Power & Substations
-  Data Logging
-  Traffic Signals



## General Features

- Cat 1 4G LTE-FDD Supported
- Remotely Configurable AT Commands
- 2G & 3G Fallback
- Serial RS-232 Interface
- Strong, Lightweight, ABS Enclosure (IP45)
- SMS Mobile Terminate/Originate
- Intercel's Smart Stack TCP/UDP
- FOTA & DOTA Functions Supported
- Output Power Class 3 @ LTE & UMTS
- Wide Input Voltage Range: 5V – 32V
- Power via RJ45 Connector
- Average Power Consumption: 205mA @ 12V
- 3V/1V8 U-SIM Card Support
- Operating Temperature: -40 to +85C
- Dimensions: 79mm x 52mm x 24mm
- Weight: 60g (approx.)

## Serial & USB Interfaces

### Serial RS232 Port (RJ45 Socket) 300bps – 230400kbps

Pin No.	Signal	Description
1	Vin	Input Voltage (5-32 VDC)
2	DCD	Data Carrier Detect
3	DTR	Data Terminal Ready (or RI)
4	GND	Common Ground
5	RxD	Serial Data OUT
6	TxD	Serial Data IN
7	CTS	Clear to Send
8	RTS	Ready to Send

### USB 2.0 Port (USB Mini-B Socket)

Pin No.	Signal	Description
1	Vusb	USB Voltage (5V)
2	D-	Data Pin -
3	D+	Data Pin +
4	N/C	Not Connected
5	GND	USB Ground

## Frequency Bands

Cat 1 LTE Speed	HSPA Speed	UMTS Speed	Supported Bands
Max. 10.2 Mbps DL	Max. 7.2 Mbps DL	Max. 384 kbps DL	4G: B3/B5/B8/B28 (700,850,900,1800MHz)
Max. 5.2 Mbps UL	Max 5.7 Mbps UL	Max. 384 kbps UL	2G/3G: B1/B5/B8 (850/900/2100Mhz)

A network of various icons representing different industries and technologies, including a truck, tractor, server rack, satellite, car, and cloud, all connected by a grid of lines.

# intercel

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