

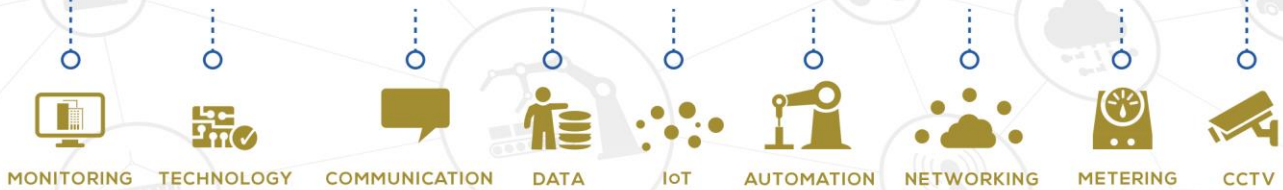


intercelTM
go anywhere communication and data transfer

30 YEARS...
OF AUSTRALIAN
ENGINEERING

SAMXQ

M2M/IoT Cat M1 & NB-IoT Modem



SAMXQ is the latest Modem from Intercel, featuring cutting edge Cat M1 and NB-IoT 4G technologies. These new technologies are designed for low power 4G connectivity and are specifically aimed at M2M, IoT 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. SAMXQ represents the latest and most modern version of our proven and reliable SAM modem family.




Product Features

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

SAMXQ is available in two versions supporting different frequency bands, allowing you to select the modem that best suits your requirements.

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

Applications

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



SUPPORT:

 www.intercel.com.au

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General Features

- Cat M1 & NB-IoT Supported
- Remotely Configurable AT Commands
- Standard 3GPP AT commands TS27.007
- 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: Max. 23dBm
- Wide Input Voltage Range: 5V – 32V
- Power via RJ45 Connector
- Average Power Consumption: 40mA @ 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

CatM1 Speed	NB-IoT Speed	Supported Bands
Max. 375 Kbps DL	Max. 32 Kbps DL	4G LTE B1/B2/B3/B4/B5/B8/B12
Max. 375 Kbps UL	Max. 70 Kbps UL	B13/B18/B19/B20/B26/B28



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