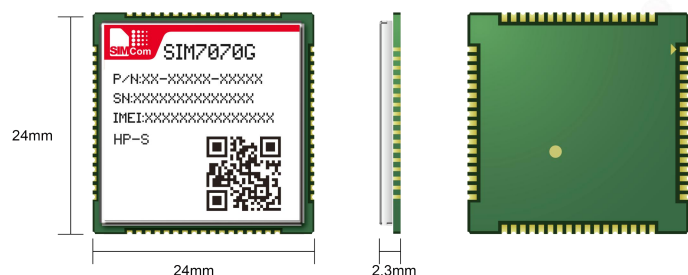


SIM7070G-HP-S

Satellite Communication Module



Product Description

SIM7070G-HP-S is a 3GPP NTN (non-terrestrial network) satellite communication module which supports 3GPP Rel-17 (IoT-NTN) at L-band (B255) and S-band (B256/B23) frequencies for satellite communications. Which supports wireless communication modes of Cat-M/Cat-NB2/GPRS/EDGE.

Employ satellite connectivity solutions that work with any satellite network globally using the 3GPP Rel.17 5G IoT-NTN protocol.

SIM7070G-HP-S adopts LCC form factor and has a compact size of 24mm*24mm which makes it ideal for compact products design.

SIM7070G-HP-S has powerful expansibility with abundant interfaces including UART, GPIO, PCM, SPI, I2C etc. The SIM7070G-HP-S is designed for applications that need low latency, low throughput data communication in a variety of radio propagation conditions. Due to the unique combination of performance, security and flexibility, this module is ideally suited for M2M applications, such as metering, asset tracking, remote monitoring, E-health etc.



Key Benefits

- ◆ With Power Saving Mode(PSM) and Extended Discontinuous Reception(eDRX), SIM7070G-HP-S can extend battery life up to 10 years
- ◆ SIM7070G-HP-S provides deeper coverage enhancement compared to GSM
- ◆ The form factor and AT commands of SIM7070G-HP-S are compatible with SIM7000X/SIM800F/SIM900

Product		SIM7070G-HP-S
Form Factor		LCC, 68PIN
Dimensions(mm)		24*24*2.3
Frequency Bands	Cat-M	B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B85
	Cat-NB	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/B85
	GSM	850/900/1800/1900MHz
LTE RF Power Class		Class 3 (Typ. 23dbm)
GNSS		O
IoT-NTN		L-band (B255*) and S-band (B256/B23*)
Temperature		-40°C ~ +85°C
Electrical Features		
Supply Voltage Range(V)		3.0~ 4.6
Power Consumption	@PSM(uA)	3.2
	@Sleep(mA)	0.8
	@Idle(mA)	10
Data Transfer		
Cat-M(Kbps)		589(DL)/1119(UL)
Cat-NB(Kbps)		127(DL)/158.5(UL)
EGPRS(Kbps)		296(DL)/236.8(UL)
Software Features		
Protocol		TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/LWM2M/COAP/MQTT
FOTA		•
Embedded AT		•
Firmware Upgrade		USB/FOTA
Interfaces		
SIM Card		1.8V
UART		•
USB		•
PCM/I2S		•
ADC		•
SPI		•
I2C		•
Embedded SIM		O
Certification		
Regulatory		RoHS/REACH/CCC/NAL/SRRC/NCC/JATE/Telec/KC*/RCM/CE(RED)/GCF/UKCA/FCC/PTCRB/IC
Carrier		Telstra*/Orange*/TIM*/Deutsche Telekom/Telefonica* /Vodafone*/AT&T/Verizon/Tmobile/US Cellular/OCD(Anatel)

• : support O : optional * : means under developing/on-going/planning