

DATASHEET

XS5G03-GB0-U Data Card



5G NR

Standard	3GPP Release 15
SA Bands	n1/2/3/5/7/8/20/25/28/30/38/40/41/48/66/71/77/78/79
NSA Bands	n1/2/3/5/8/20/28/38/41/66/71/77/78/79
Sub-6 CA	FDD/TDD+FDD/TDD DL CA*
DL 4x4 MIMO	n1/2/3/7/25/30/38/40/41/48/66/77/78/79
UL 2x2 MIMO	n41/77/78/79

4G LTE

LTE Category	Cat 12
LTE Bands	B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/ 30/32/34/38/39/40/41/42/43/46/48/66/71
DL CA	4x4 MIMO, 3CC
UL CA	2CC

3G UMTS/WCDMA

Bands	B1/B2/B4/B5/B8
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GPS

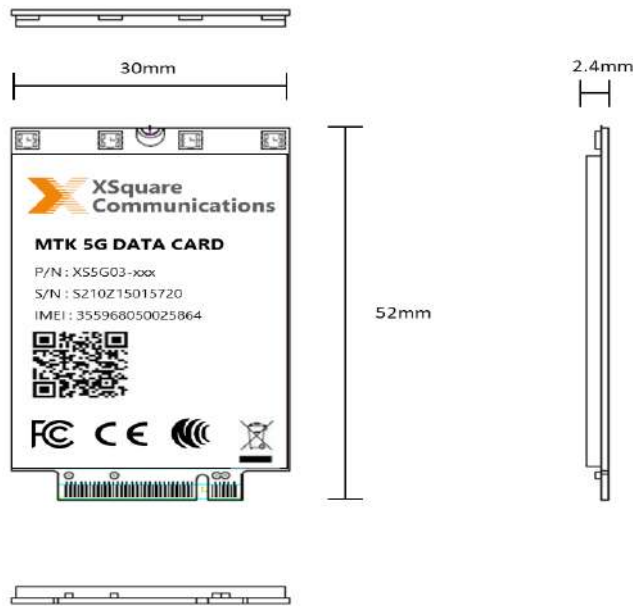
Standard	GPS/GLONASS/BeiDou/Galileo
Frequency Band	L1

Main Data Through(peak)

5G NR DL/UL	2.77Gbps / 1.25Gbps
4G DL/UL	600Mbps / 150Mbps
3G DL	42.2Mbps (DC-HSPA+)
3G UL	11.5Mbps

Certifications

Standard	FCC / CE / JRF&JPA / NCC
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HardWare

Package	M.2 module (key B)
SOC	MediaTek T700 series (MT6880VT) / Integrates ARM Corex-A55
Flash	MCP 4Gb+4Gb
Power Supply	3.135V-3.63V, typical: 3.3V
Interfaces	USB 2.0 / USB 3.0 / SIM GPIO (Reset / Power / LED) / UART
RF Antenna port	ANT0: 617 MHz ~ 5000 MHz ANT1: 1805 MHz ~ 5000 MHz ANT2: 1710 MHz ~ 5000 MHz ANT3: 617 MHz ~ 5000 MHz
Dimensions	52mm x 30mm x 2.4mm (Max)
Weight	8.7g
Operation Temp	-30 ~ +70 °C
Storage Temp	-40 ~ +90 °C

SoftWare

Update / Management.	Firmware update via USB
OS Version.	TBD (Depends on host OS) Module support from Linux 4.19
Drivers	USB 3.0 RNDIS/MBIM



Pin define			
Pin No.	Pin Name		Pin No. Pin Name
74	+3.3V		75 CONFIG_2 (GND)
72	+3.3V		73 VIO_CFG (NC)
70	+3.3V		71 GND
68	NC		69 CONFIG_1 (GND)
66	SIM Detect (I) (1.8V)		67 RESET# (I) (1.8V)
64	COEX1 (IO) (1.8V)		65 ANTCTL3 (O) (1.8V)
62	COEX2 (IO) (1.8V)		63 ANTCTL2 (O) (1.8V)
60	COEX3 (IO) (1.8V)		61 ANTCTL1 (O) (1.8V)
58	MIPI2_D_SDATA (IO) (1.8V)		59 ANTCTL0 (O) (1.8V)
56	MIPI2_D_SCLK (O) (1.8V)		57 GND
54	PEWake# (IO) (3.3/1.8V)		55 REFCLKP
52	CLKREQ# (IO) (3.3/1.8V)		53 REFCLKN
50	PERST# (IO) (3.3/1.8V)		51 GND
48	NC		49 PERp0
46	NC		47 PERn0
44	I2C_IRQ# (I) (1.8V)		45 GND
42	I2C_SDA (IO) (1.8V)		43 PETp0
40	I2C_SCL (O) (1.8V)		41 PETn0
38	NC		39 GND
36	USIM1_PWR (O)		37 USB3.0_RX+
34	USIM1_DATA (IO)		35 USB3.0_RX-
32	USIM1_CLK (O)		33 GND
30	USIM1_RESET (O)		31 USB3.0_TX+
28	I2S0_LRCK (IO) (1.8V)		29 USB3.0_TX-
26	W_DISABLE2# (I) (3.3/1.8V)		27 GND
24	I2S0_DO (O) (1.8V)		25 DPR (I) (1.8V)
22	I2S0_DI (I) (1.8V)		23 WOWWAN# (IO) (1.8V)
20	I2S0_BCK (IO) (1.8V)		21 CONFIG_0 (GND)
	Notch		Notch
	Notch		Notch
	Notch		Notch
	Notch		Notch
10	LED1# (O) (3.3V)		11 GND
8	W_DISABLE1# (I) (3.3/1.8V)		9 USB_D-
6	FULL_CARD_POWER_OFF# (I) (3.3/1.8V)		7 USB_D+
4	+3.3V		5 GND
2	+3.3V		3 GND
			1 CONFIG_3 (NC)

