

DATASHEET

# WHDXS5G03-EUI-P Data Card



## 5G NR

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

## 4G LTE

LTE Category	Cat 12
LTE Bands	B1/3/5/7/8/20/28/32/38/40/41/42/43
DL CA	4x4 MIMO, 3CC
UL CA	2CC

## 3G UMTS/WCDMA

Bands	B1/5/8
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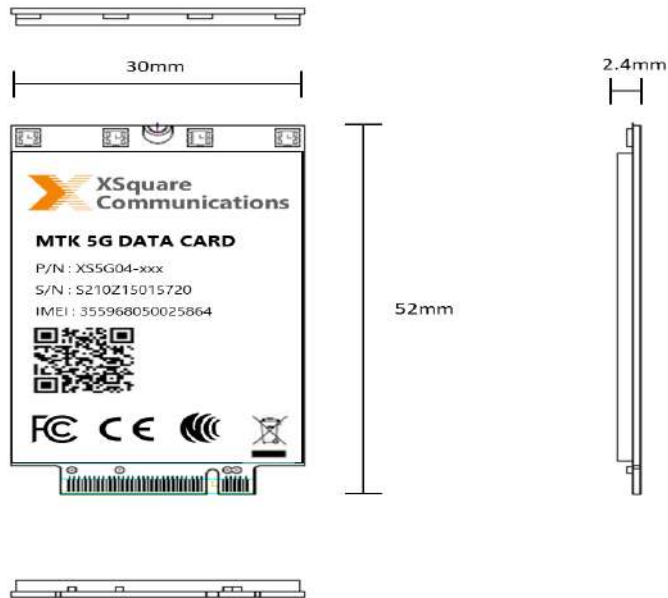


## Main Data Through(peak)

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	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	<b>PCI-e 3.0(2.0) / SIM</b> 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 52mm x 30mm x 2.4mm (Max)
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 PCI-e
OS Version.	TBD (Depends on host OS) Module support from Linux 4.19
Drivers	PCI-e



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	I2SO_LRCK (IO) (1.8V)	29	USB3.0_TX-
26	W_DISABLE2# (I) (3.3/1.8V)	27	GND
24	I2SO_DO (O) (1.8V)	25	DPR (I) (1.8V)
22	I2SO_DI (I) (1.8V)	23	WOWWAN# (IO) (1.8V)
20	I2SO_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)

