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Contents

Getting to Know the MU709s-6	1
Dimension.....	1
Position of RF Connectors.....	2
Pin Definitions	3

Thank you for purchasing HUAWEI MU709s-6 HSPA+ mini PCIE Module (hereinafter referred to as the MU709s-6)

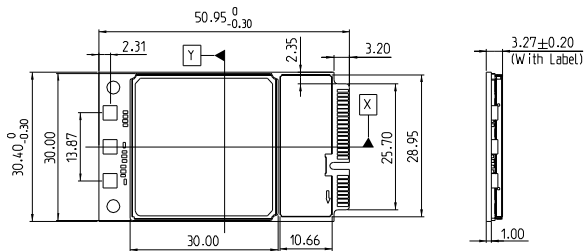
Note:

- This manual briefly describes the dimension, the position of RF connectors and Pin definitions.
- You are recommended to read the manual before using the MU709s-6.

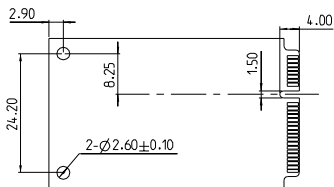
Getting to Know the MU709s-6

Dimension

- The package of the mini PCIE module is 52 pin PCIE with a dimension of 51 mm × 30.4 mm × 3.3 mm. It is applied to the user interface board, and can be used as a wireless terminal in a network environment.



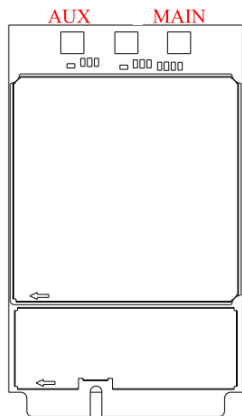
TOP VIEW



BOTTOM VIEW

Position of RF Connectors

The PCIe Adapter module provided two antenna connectors (MAIN_ANT and AUX_ANT) for connecting the external antennas.



Pin Definitions

- The sequence of mini-PCIE interface is shown below.

PIN No.	Pin Name		I / O	Description	DC Characteristics (V)		
	Mini PCI Express Standard Description	HUAWEI Pin Description			Min.	Typ.	Max
1	WAKE#	WAKE#	O	OC 门. 用来唤醒主机.	-0.3	-	-
2	3.3Vaux	VCC_3V3	P	3.3 V DC 电源	3.0	3.3	3.6
3	COEX1	NC	-	不连接	-	-	-
4	GND	GND	-	地	-	-	-
5	COEX2	NC	-	不连接	-	-	-
6	1.5 V	NC	-	不连接	-	-	-
7	CLKREQ#	NC	-	不连接	-	-	-
8	UIM_PWR	UIM_PWR	O	USIM 卡电源	-	1.8/2.8 5	-
9	GND	GND	-	地	-	-	-
10	UIM_DATA	UIM_DATA	I / O	USIM 卡数据信号	-0.3	1.8/2.8 5	2.1/3 .05
11	REFCLK-	NC	-	不连接	-	-	-
12	UIM_CLK	UIM_CLK	O	USIM 卡时钟信号	-0.3	1.8/2.8 5	2.1/3 .05
13	REFCLK+	NC	-	不连接	-	-	-

PIN No.	Pin Name		I / O	Description	DC Characteristics (V)		
	Mini PCI Express Standard Description	HUAWEI Pin Description			Min.	Typ.	Max
14	UIM_RESET	UIM_RESET	O	USIM 卡复位信号.	-0.3	1.8/2.85	2.1/3.05
15	GND	GND	-	地	-	-	-
16	UIM_Vpp	NC	-	不连接	-	-	-
17	Reserved	Reserved	-	保留引脚，不连接	-	-	-
18	GND	GND	-	地	-	-	-
19	Reserved	Reserved	-	保留引脚，不连接	-	-	-
20	W_DISABLE#	W_DISABLE#	-	用来禁止模块无线通信功能。 目前不支持此功能。	-	-	-
21	GND	GND	-	地	-	-	-
22	PERST#	RESIN_N	-	Reset module Active-low	-	-	-
23	PERn0	NC	-	不连接	-	-	-
24	3.3Vaux	VCC_3V3	-	3.3 V DC 电源	3.0	3.3	3.6

PIN No.	Pin Name		I / O	Description	DC Characteristics (V)		
	Mini PCI Express Standard Description	HUAWEI Pin Description			Min.	Typ.	Max
25	PERp0	NC	-	不连接	-	-	-
26	GND	GND	-	地	-	-	-
27	GND	GND	-	地	-	-	-
28	1.5 V	NC	-	不连接	-	-	-
29	GND	GND	-	地	-	-	-
30	SMB_CLK	NC	-	不连接	-	-	-
31	PETn0	NC	-	不连接	-	-	-
32	SMB_DATA	NC	-	不连接	-	-	-
33	PETp0	NC	-	不连接	-	-	-
34	GND	GND	-	地	-	-	-
35	GND	GND	-	地	-	-	-
36	USB_D-	USB_D-	I / O	USB D-	-	-	-
37	GND	GND	-	地	-	-	-
38	USB_D+	USB_D+	I / O	USB D+	-	-	-

PIN No.	Pin Name		I / O	Description	DC Characteristics (V)		
	Mini PCI Express Standard Description	HUAWEI Pin Description			Min.	Typ.	Max
39	3.3Vaux	VCC_3V3	P	3.3 V DC 电源	3.0	3.3	3.6
40	GND	GND	-	地	-	-	-
41	3.3Vaux	VCC_3V3	P	3.3 V DC 电源	3.0	3.3	3.6
42	LED_WWAN #	LED_WWAN #	O	LED 指示信号, 用来指示模块的工作状态 低电平有效	-	-	-
43	GND	GND	-	地	-	-	-
44	LED_WLAN#	NC	-	不连接	-	-	-
45	Reserved	PCM_CLK	O	PCM 时钟信号	-0.3	2.6	2.9
46	LED_WPAN#	NC	-	不连接	-	-	-
47	Reserved	PCM_DOUT	O	PCM 数据输出	-0.3	2.6	2.9
48	1.5 V	NC	-	不连接	-	-	-
49	Reserved	PCM_DIN	I	PCM 数据输入	-0.3	2.6	2.9
50	GND	GND	-	地	-	-	-
51	Reserved	PCM_SYNC	O	PCM 同步信号	-0.3	2.6	2.9

PIN No.	Pin Name		I / O	Description	DC Characteristics (V)		
	Mini PCI Express Standard Description	HUAWEI Pin Description			Min.	Typ.	Max
52	3.3Vaux	VCC_3V3	P	3.3 V DC 电源	3.0	3.3	3.6

