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Thank you for purchasing HUAWEI ME909U-523D LTE mini PCIE Module (hereinafter referred to as the ME909U-523D)

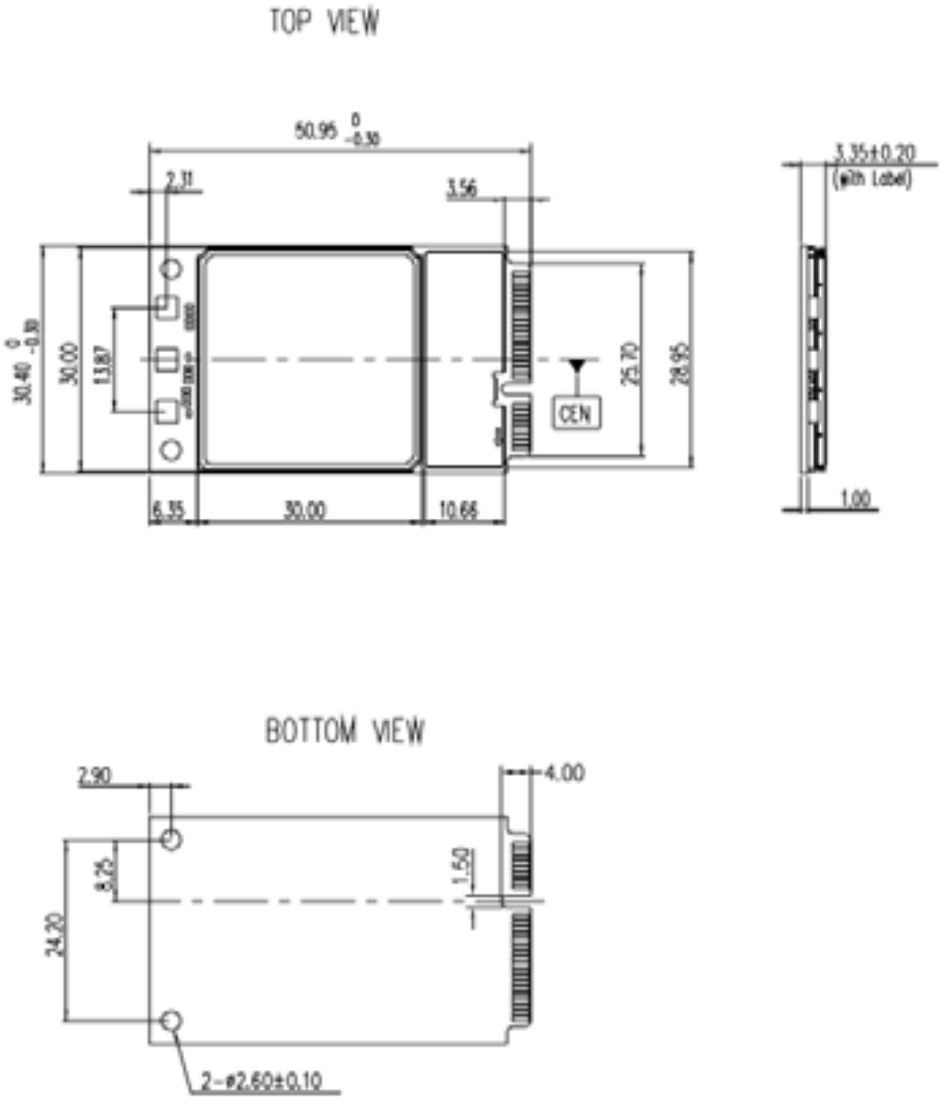
Note:

- This manual briefly describes the dimension, the position of RF connectors and Pin definitions.
- You are recommended to read the manual before using the ME909U-523D.

Getting to Know the ME909U-523D

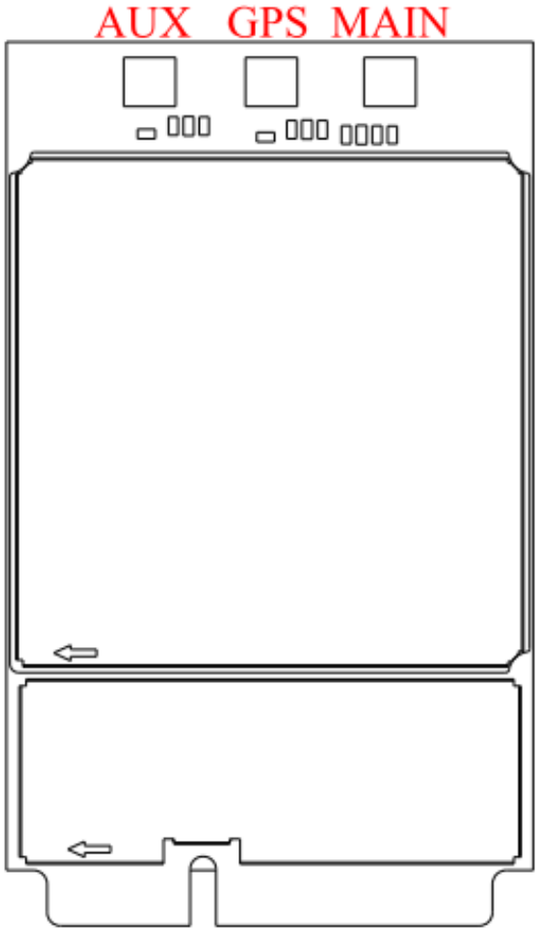
Dimension

- The package of the mini PCIE module is 52 pin PCIE with a dimension of 51 mm × 30.4 mm × 3.4 mm. It is applied to the user interface board, and can be used as a wireless terminal in a network environment.



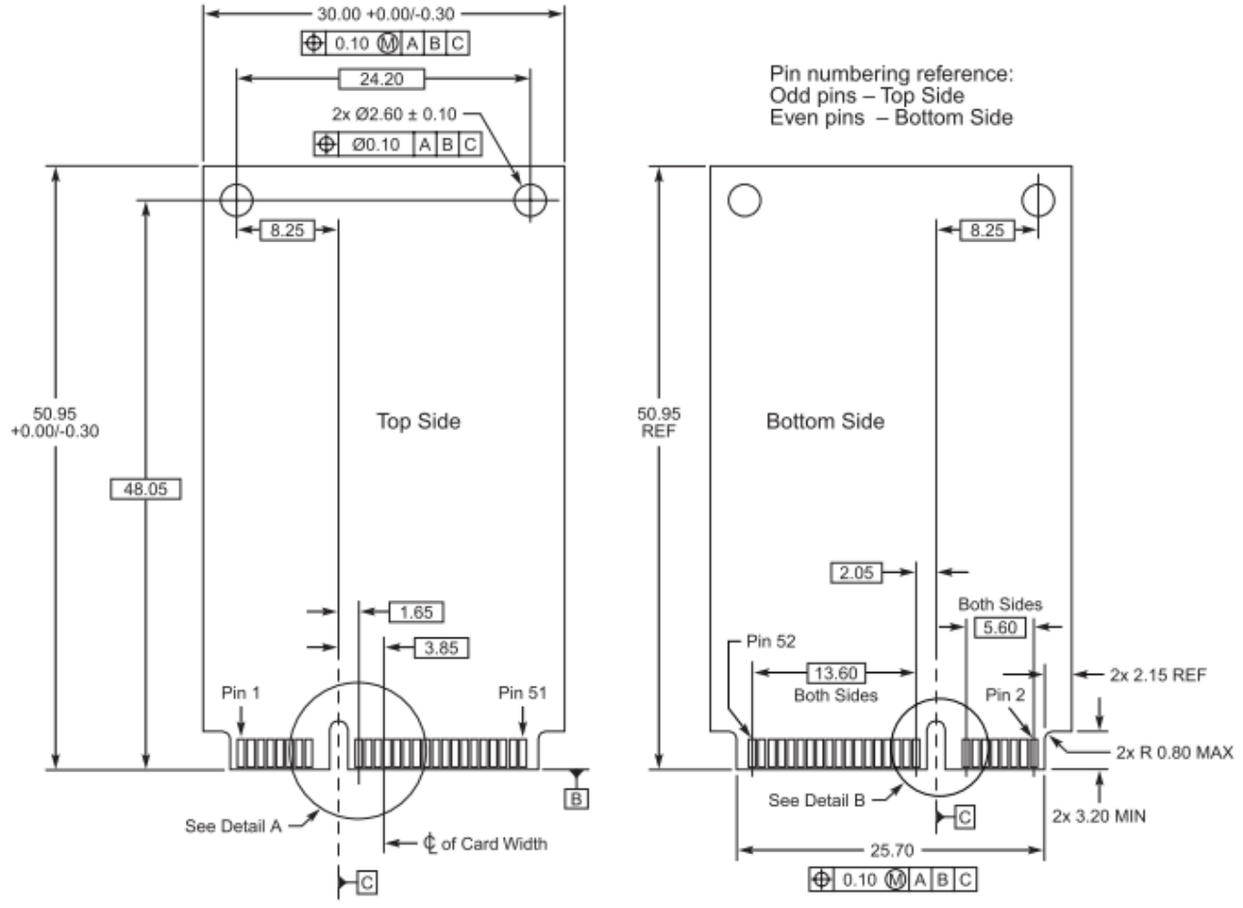
Position of RF Connectors

The PCIE module provided three antenna connectors (MAIN_ANT, GPS_ANT and AUX_ANT) for connecting the external antennas.



Pin Definitions

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



- The Pin definitions of the 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	Open collector active low signal. This signal is used to wake up the host.	–0.3	-	-
2	3.3Vaux	VCC_3V3	P	3.3 V DC supply rails from the PC side.	3.0	3.3	3.6
3	RESERVED	UART0_CTS_PCIE	-	CTS of UART0	-	-	-
4	GND	GND	-	Mini Card ground	-	-	-
5	RESERVED	UART0_RTS_PCIE	-	RTS of UART0	-	-	-
6	1.5 V	NC	-	Not connected	-	-	-
7	CLKREQ#	NC	-	Not connected	-	-	-
8	UIM_PWR	UIM_PWR	O	Power source for the external UIM/SIM card	-	1.8/2.85	-
9	GND	GND	-	Mini Card ground	-	-	-
10	UIM_DATA	UIM_DATA	I/O	External UIM/SIM data signal	–0.3	1.8/2.85	2.1/3.05
11	REFCLK-	NC	-	Not connected	-	-	-

PIN No.	Pin Name		I / O	Description	DC Characteristics (V)		
	Mini PCI Express Standard Description	HUAWEI Pin Description			Min.	Typ.	Max.
12	UIM_CLK	UIM_CLK	O	External UIM/SIM clock signal	–0.3	1.8/2.85	2.1/3.05
13	REFCLK+	NC	-	Not connected	-	-	-
14	UIM_RESET	UIM_RESET	O	External UIM/SIM reset signal.	–0.3	1.8/2.85	2.1/3.05
15	GND	GND	-	Mini Card ground	-	-	-
16	UIM_Vpp	Reserved	-	Reserved	-	-	-
17	RESERVED	Reserved	-	Reserved	-	-	-
18	GND	GND	-	Mini Card ground	-	-	-
19	RESERVED	Reserved	-	Reserved	-	-	-
20	W_DISABLE#	W_DISABLE#	-	The W_DISABLE# signal is an active low signal that when asserted (driven low) by the system shall disable radio operation. The software version is planning.	-	-	-
21	GND	GND	-	Mini Card ground	-	-	-

PIN No.	Pin Name		I / O	Description	DC Characteristics (V)		
	Mini PCI Express Standard Description	HUAWEI Pin Description			Min.	Typ.	Max.
22	PERST#	NC	-	Not connected	-	-	-
23	PERn0	NC	-	Not connected	-	-	-
24	3.3Vaux	VCC_3V3	-	3.3 V DC supply rails from the PC side.	3.0	3.3	3.6
25	PERp0	NC	-	Not connected	-	-	-
26	GND	GND	-	Mini Card ground	-	-	-
27	GND	GND	-	Mini Card ground	-	-	-
28	1.5 V	NC	-	Not connected	-	-	-
29	GND	GND	-	Mini Card ground	-	-	-
30	SMB_CLK	NC	-	Not connected	-	-	-
31	PETn0	NC	-	Not connected	-	-	-
32	SMB_DATA	NC	-	Not connected	-	-	-
33	PETp0	NC	-	Not connected	-	-	-
34	GND	GND	-	Mini Card ground	-	-	-
35	GND	GND	-	Mini Card ground	-	-	-
36	USB_D-	USB_D-	I/O	USB signal D-	-	-	-
37	RESERVED	RESERVED	-	RESERVED	-	-	-

PIN No.	Pin Name		I / O	Description	DC Characteristics (V)		
	Mini PCI Express Standard Description	HUAWEI Pin Description			Min.	Typ.	Max.
38	USB_D+	USB_D+	I/O	USB signal D+	-	-	-
39	RESERVED	VCC_3V3	P	3.3 V DC supply rails from the PC side.	3.0	3.3	3.6
40	GND	GND	-	Mini Card ground	-	-	-
41	RESERVED	VCC_3V3	P	3.3 V DC supply rails from the PC side	3.0	3.3	3.6
42	LED_WWAN#	LED_WWAN	I	Active-low LED signal indicating the state of the card The software feature is under development and don't support this function now.	-	-	-
43	GND	GND	-	Mini Card ground	-	-	-
44	LED_WLAN#	NC	-	Not connected	-	-	-
45	RESERVED	PCM_CLK	O	PCM interface clock	–0.3	1.8	2.1
46	LED_WPAN#	NC	-	Not connected	-	-	-

PIN No.	Pin Name		I / O	Description	DC Characteristics (V)		
	Mini PCI Express Standard Description	HUAWEI Pin Description			Min.	Typ.	Max.
47	RESERVED	PCM_DOUT	O	PCM I/F data out	–0.3	1.8	2.1
48	1.5 V	NC	-	Not connected	-	-	-
49	RESERVED	PCM_DIN	I	PCM I/F data in	–0.3	1.8	2.1
50	GND	GND	-	Mini Card Ground	-	-	-
51	RESERVED	PCM_SYNC	O	PCM interface sync	–0.3	1.8	2.1
52	3.3Vaux	VCC_3V3	P	3.3 V DC supply rail from the PC side.	3.0	3.3	3.6