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Thank you for purchasing HUAWEI ME209U-526D LTE mini PCIE Module (hereinafter referred to as the ME209U-526D)

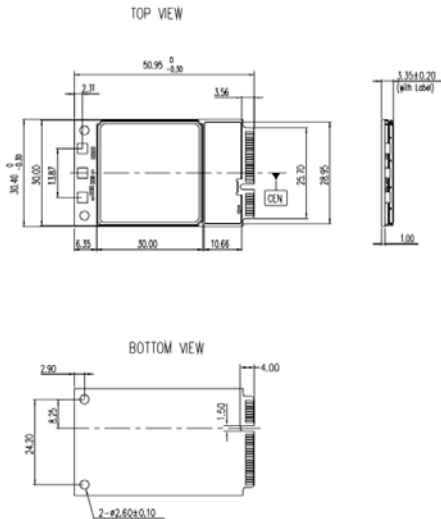
Note:

- This manual briefly describes the dimension, the position of RF connectors and Pin definitions.
- You are recommended to read the manual before using the ME209U-526D.

Getting to Know the ME209U-526D

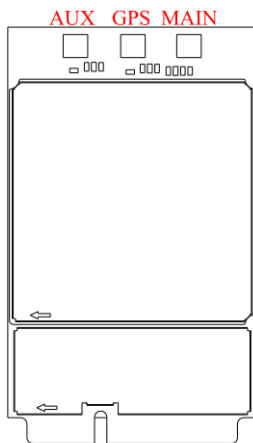
Dimension

- 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		Pad Type	Description	Parameter	Min .(V)	Typ. (V)	Max .(V)
	Mini PCI Express Standard Description	HUAWEI Pin Description						
1	WAKE#	WAKE#	O	Open collector active low signal. This signal is used to wake up the host.	-	-0.3	-	0.45
2	3.3Vaux	VCC_3V3	P	3.3 V DC supply input.	-	3.0	3.3	3.6
3	COEX1	Reserved	-	Reserved	-	-	-	-
4	GND	GND	-	Ground	-	-	-	-
5	COEX2	Reserved	-	Reserved	-	-	-	-
6	1.5 V	NC	-	Not connected	-	-	-	-
7	CLKREQ#	CLKREQ#	-	Wake up in from host	-	-	-	-
8	UIM_PWR	USIM_PWR	PO	Power source for the external USIM card	Class C	-0.3	1.8	1.98
					Class B	-0.3	2.85	3.3

Pin No.	Pin Name		Pad Type	Description	Parameter	Min .(V)	Typ.(V)	Max .(V)
	Mini PCI Express Standard Description	HUAWEI Pin Description						
9	GND	GND	-	Ground	-	-	-	-
10	UIM_DATA	USIM_DATA	I/O	External USIM data signal	-	-	1.8/ 2.85	-
11	REFCLK-	NC	-	Not connected	-	-	-	-
12	UIM_CLK	USIM_CLK	O	External USIM clock signal	-	-	1.8/ 2.85	-
13	REFCLK+	NC	-	Not connected	-	-	-	-
14	UIM_RESET	USIM_RESET	O	External USIM reset signal	-	-	1.8/ 2.85	-
15	GND	GND	-	Ground	-	-	-	-
16	UIM_Vpp	NC	-	Not connected	-	-	-	-
17	Reserved	Reserved	-	Reserved	-	-	-	-
18	GND	GND	-	Ground	-	-	-	-
19	Reserved	Reserved	-	Reserved	-	-	-	-

Pin No.	Pin Name		Pad Type	Description	Parameter	Min.(V)	Typ.(V)	Max.(V)
	Mini PCI Express Standard Description	HUAWEI Pin Description						
20	W_DISABLE#	W_DISABLE#	I	The W_DISABLE# signal is an active low signal that when asserted (driven low) by the system shall disable radio operation. The firmware with this feature is in plan.	V _{IL}	-0.3	0	0.3
					V _{IH}	1.17	1.8	2.1
21	GND	GND	-	Ground	-	-	-	-
22	PERST#	RESIN_N	I	Reset module Active-low	V _{IL}	-0.3	0	0.3
					V _{IH}	1.17	1.8	2.1
23	PERn0	NC	-	Not connected	-	-	-	-
24	3.3Vaux	VCC_3V3	P	3.3 V DC supply input.	-	3.0	3.3	3.6

Pin No.	Pin Name		Pad Type	Description	Parameter	Min .(V)	Typ.(V)	Max .(V)
	Mini PCI Express Standard Description	HUAWEI Pin Description						
25	PERp0	NC	-	Not connected	-	-	-	-
26	GND	GND	-	Ground	-	-	-	-
27	GND	GND	-	Ground	-	-	-	-
28	1.5 V	NC	-	Not connected	-	-	-	-
29	GND	GND	-	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	-	Ground	-	-	-	-
35	GND	GND	-	Ground	-	-	-	-
36	USB_D-	USB_DM	I/O	USB signal D-	-	-	-	-

Pin No.	Pin Name		Pad Type	Description	Parameter	Min. (V)	Typ. (V)	Max. (V)
	Mini PCI Express Standard Description	HUAWEI Pin Description						
37	GND	GND	-	Ground	-	-	-	-
38	USB_D+	USB_DP	I/O	USB signal D+	-	-	-	-
39	3.3Vaux	VCC_3V3	P	3.3 V DC supply input.	-	3.0	3.3	3.6
40	GND	GND	-	Ground	-	-	-	-
41	3.3Vaux	VCC_3V3	P	3.3 V DC supply input.	-	3.0	3.3	3.6
42	LED_WWAN#	LED_WWAN#	O	Active-low LED signal indicating the state of the card.	-	-0.3	-	0.45
43	GND	GND	-	Ground	-	-	-	-
44	LED_WLAN#	NC	-	Not connected	-	-	-	-
45	Reserved	Reserved	-	Reserved	V _{OL}	-0.3	0	0.45
					V _{OH}	1.35	1.8	2.1

Pin No.	Pin Name		Pad Type	Description	Parameter	Min.(V)	Typ.(V)	Max.(V)
	Mini PCI Express Standard Description	HUAWEI Pin Description						
46	LED_WPAN#	NC	-	Not connected	-	-	-	-
47	Reserved	Reserved	-	Reserved	V_{OL}	-0.3	0	0.45
					V_{OH}	1.35	1.8	2.1
48	1.5 V	NC	-	Not connected	-	-	-	-
49	Reserved	Reserved	-	Reserved	V_{IL}	-0.3	0	0.63
					V_{IH}	1.17	1.8	2.1
50	GND	GND	-	Ground	-	-	-	-
51	Reserved	Reserved	-	Reserved	V_{OL}	-0.3	0	0.45
					V_{OH}	1.35	1.8	2.1
52	3.3Vaux	VCC_3V3	P	3.3 V DC supply input.	-	3.0	3.3	3.6