Copyright © Huawei Technologies Co., Ltd. 2013.

All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

The product described in this manual may include copyrighted software of Huawei Technologies Co., Ltd and possible licensors. Customers shall not in any manner reproduce, distribute, modify, decompile, disassemble, decrypt, extract, reverse engineer, lease, assign, or sublicense the said software, unless such restrictions are prohibited by applicable laws or such actions are approved by respective copyright holders under licenses.

Trademarks and Permissions



HUAWEI, HUAWEI, and



are trademarks or registered trademarks of Huawei Technologies

Co., Ltd.

Other trademarks, product, service and company names mentioned are the property of their respective owners.

Notice

Some features of the product and its accessories described herein rely on the software installed, capacities and settings of local network, and may not be activated or may be limited by local network operators or network service providers, thus the descriptions herein may not exactly match the product or its accessories you purchase.

Huawei Technologies Co., Ltd reserves the right to change or modify any information or specifications contained in this manual without prior notice or obligation.

NO WARRANTY

THE CONTENTS OF THIS MANUAL ARE PROVIDED "AS IS". EXCEPT AS REQUIRED BY APPLICABLE LAWS, NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE MADE IN RELATION TO THE ACCURACY, RELIABILITY OR CONTENTS OF THIS MANUAL.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO CASE SHALL HUAWEI TECHNOLOGIES CO., LTD BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, OR LOST PROFITS, BUSINESS, REVENUE, DATA, GOODWILL OR ANTICIPATED SAVINGS.

Import and Export Regulations

Customers shall comply with all applicable export or import laws and regulations and will obtain all necessary governmental permits and licenses in order to export, re-export or import the product mentioned in this manual including the software and technical data therein.

Contents

Getting to Know the ME209U-526D	1
Dimension	1
Position of RF Connectors	2
Pin Definitions	3

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

Note:

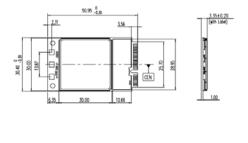
- This manual briefly describes the dimension, the position of RF connectors and Pin definitions.
- You are recommended to read the manual before using the ME209U-526D.

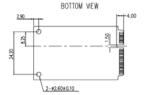
Getting to Know the ME209U-526D

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.

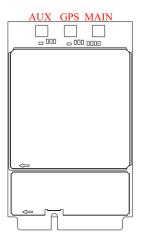
TOP VIEW





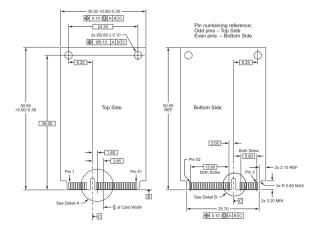
Position of RF Connectors

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	Para meter	Min .(V)	Typ.(V)	Max .(V)
110.	Mini PCI Express Standard Description	HUAWEI Pin Description	ιyp				•,	
1	WAKE#	WAKE#	0	Open collector active low signal. This signal is used to wake up the host.	-	-0. 3	-	0.4 5
2	3.3Vaux	VCC_3V3	Ρ	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	sou	Power source for the external	Class C	-0. 3	1.8	1.9 8
				USIM card	Class B	-0. 3	2.85	3.3

Pin No.	Pin Name		Pad Type	Description	Para meter	Min .(V)	Typ.(V)	Max .(V)
140.	Mini PCI Express Standard Description	HUAWEI Pin Description	iype		meter	.(v)	•)	.(v)
9	GND	GND	-	Ground	-	-	-	-
10	UIM_DATA	USIM_DATA	1/0	External USIM data signal	-	-	1.8/ 2.85	-
11	REFCLK-	NC	-	Not connected	-	-	-	-
12	UIM_CLK	USIM_CLK	0	External USIM clock signal	-	-	1.8/ 2.85	-
13	REFCLK+	NC	-	Not connected	-	-	-	-
14	UIM_RESET	USIM_RESET	0	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	Para meter	Min .(V)	Typ.(V)	Max .(V)
140.	Mini PCI Express Standard Description	ni PCI Express HUAWEI Pin	ijрс		ineder	,	•,	.(*)
20	signa activ signa whe asse (driv	The W_DISABLE# signal is an active low signal that when asserted (driven low) by the	V _{IL}	-0. 3	0	0.3		
				system shall disable radio operation. The firmware with this feature is in plan.	V _{iH}	1.1 7	1.8	2.1
21	GND	GND	-	Ground	-	-	-	-
22	PERST#	RESIN_N	I	Reset module	V _{IL}	-0. 3	0	0.3
			Active-low	$\vee_{\mathbb{H}}$	1.1 7	1.8	2.1	
23	PERn0	NC	-	Not connected	-	-	-	-
24	3.3Vaux	VCC_3V3	Ρ	3.3 V DC supply input.	-	3.0	3.3	3.6

Pin No.	Pin Name		Pad Type	Description	Para meter	Min .(V)	Typ.(V)	Max .(V)
140.	Mini PCI Express Standard Description	HUAWEI Pin Description	iype		meter	.(v)	•,	.(v)
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	РЕТрО	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	Para meter	Min .(V)	Typ.(V)	Max .(V)
140.	Mini PCI Express Standard Description	HUAWEI Pin Description	iype			,	•,	.(•)
37	GND	GND	-	Ground	-	-	-	-
38	USB_D+	USB_DP	I/O	USB signal D+	-	-	-	-
39	3.3Vaux	VCC_3V3	Р	3.3 V DC supply input.	-	3.0	3.3	3.6
40	GND	GND	-	Ground	-	-	-	-
41	3.3Vaux	VCC_3V3	Ρ	3.3 V DC supply input.	-	3.0	3.3	3.6
42	LED_WWAN#	LED_WWAN#	0	Active-low LED signal indicating the state of the card.	-	-0. 3	-	0.4 5
43	GND	GND	-	Ground	-	-	-	-
44	LED_WLAN#	NC	-	Not connected	-	-	-	-
45	Reserved	Reserved	-	Reserved	V _{ol}	-0. 3	0	0.4 5
					V _{OH}	1.3 5	1.8	2.1

Pin No.	Pin Name		Pad Type	Description	Para meter	Min .(V)	Typ.(V)	Max .(V)
140.	Mini PCI Express Standard Description	HUAWEI Pin Description	туре		meter	.(v)	•,	.(v)
46	LED_WPAN#	NC	-	Not connected	-	-	-	-
47	Reserved	Reserved	-	Reserved	V _{OL}	-0. 3	0	0.4 5
					V _{OH}	1.3 5	1.8	2.1
48	1.5 V	NC	-	Not connected	-	-	-	-
49	Reserved	Reserved	-	Reserved	V _{IL}	-0. 3	0	0.6 3
					V _{IH}	1.1 7	1.8	2.1
50	GND	GND	-	Ground	-	-	-	-
51	Reserved	Reserved	-	Reserved	V _{OL}	-0. 3	0	0.4 5
					V _{OH}	1.3 5	1.8	2.1
52	3.3Vaux	VCC_3V3	Ρ	3.3 V DC supply input.	-	3.0	3.3	3.6