

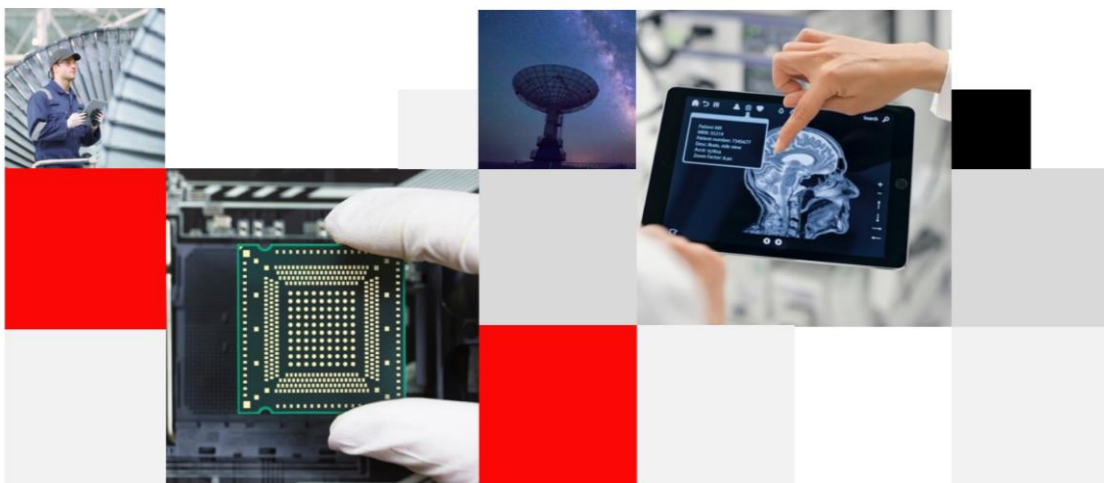
LTE-A&5G M.2&MINI PCIe Module Series Test Points

LTE-A&5G M.2&MINI PCIe Module Series

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About the Document

History

Revision	Date	Author	Description
1.0	2020-09-25	Jada LIN	Initial
1.1	2021-03-29	Jada LIN	1.Updated QUALCOMM&MTK module test point. 2.Added SPREADTRUM 5G module test point.

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1 Introduction

This document describes the location of LTE-A &5G M.2&MINI PCIe module series test points.

2 Test Point

The following table describe the test points of LTE-A&5G M.2&MINI PCIe series modules.

Table 1: Test Points Description

Test Points	Description
VBAT	Power Supply of the Module.
FORCE_USB_BOOT VREG_L6_1P8	Short of FORCE_USB_BOOT and VREG_L6_1P8 enters forced download QDLoader port.
DEBUG_TXD DEBUG_RXD	DEBUG_TXD and DEBUG_RXD are used for debug log information.
FULL_CARD_ POWER_OFF#	A signal to power on/off the module.
USB_DP USB_DM	USB 2.0 differential data bus.
BB_PS_HOLD_OUT	Power-supply hold signal to PMIC.
JTAG_SRST_N	JTAG reset for debug
JTAG_TCK	JTAG clock input.
JTAG_TDO	JTAG data output.
JTAG_TDI	JTAG data input.
JTAG_TMS	JTAG mode select input
JTAG_TRST_N	JTAG reset.
COEX_UART_TX	COEX UART transmit data.

2.1. EM06 Series Modules

EM06 series modules include EM06-E, EM06-J, EM06-A.

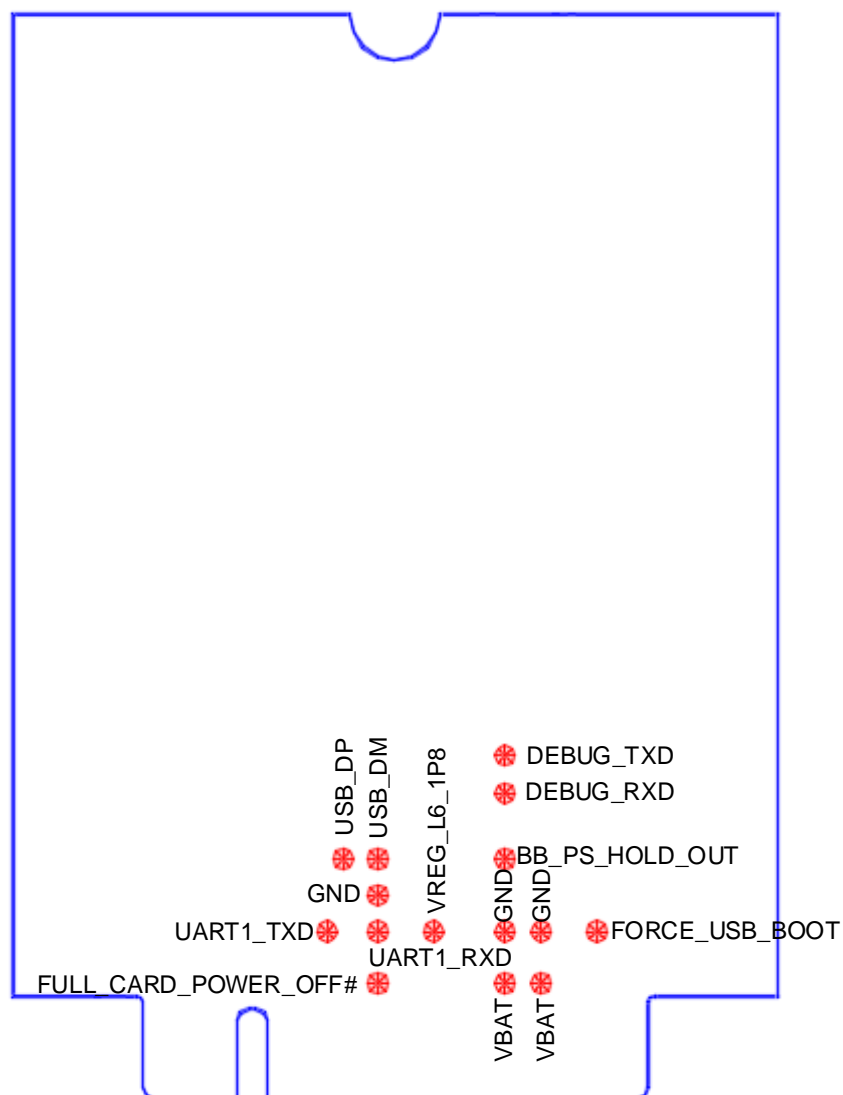


Figure 1: EM06 Series Test Points (BOT VIEW)

2.2. EM12 Series Modules

EM12 series modules include EM12-G, EM12-AW.

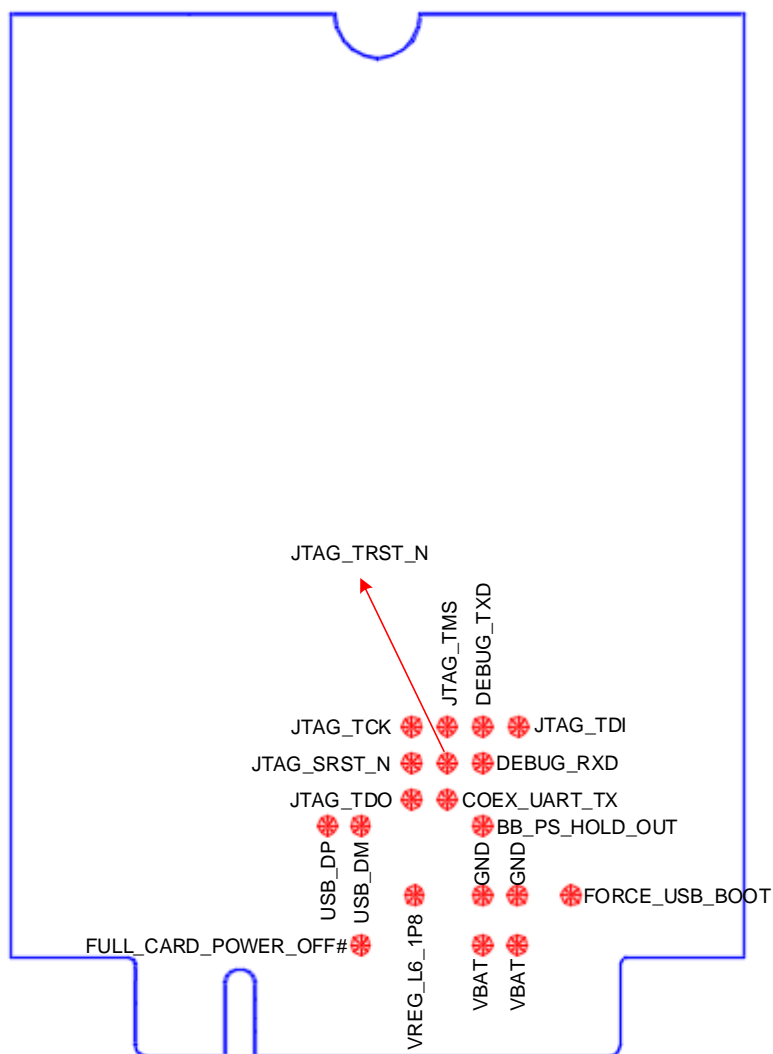


Figure 2: EM12-G Test Points (BOT VIEW)

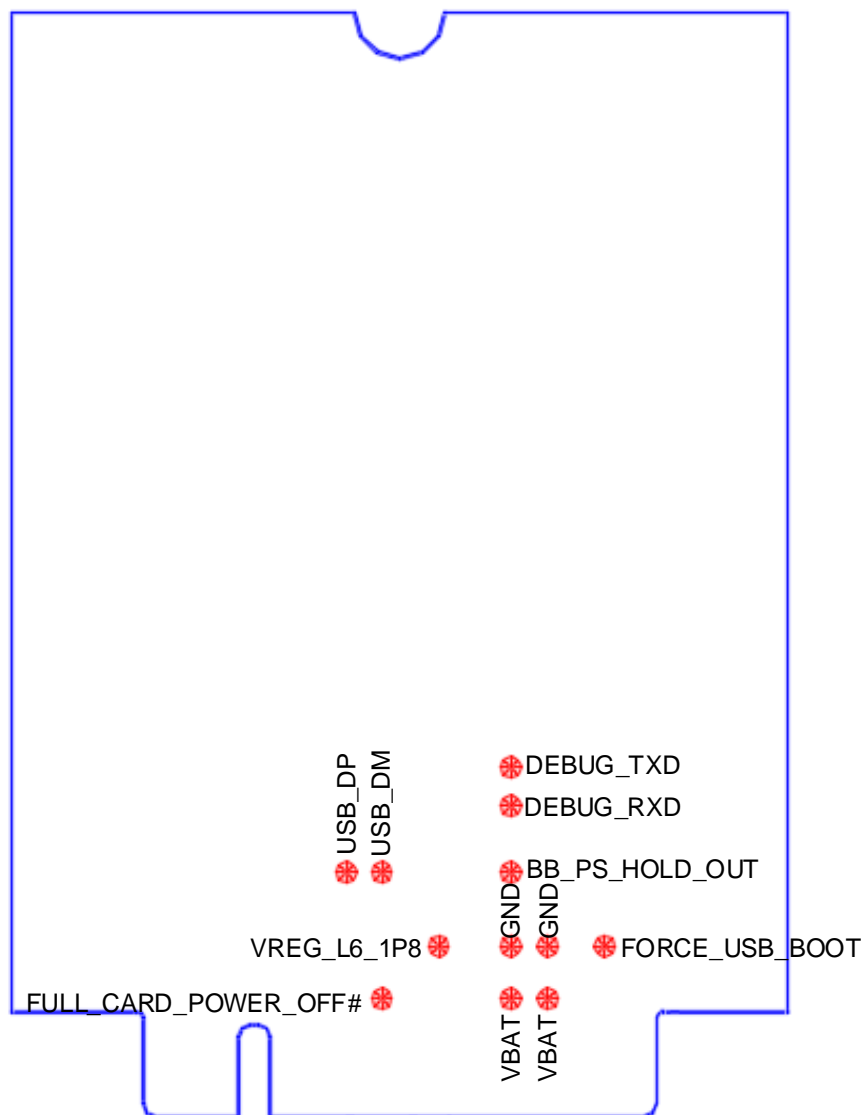


Figure 3: EM12-AW Test Points (BOT VIEW)

2.3. EM120&EM160 Series Modules

EM120&EM160 Series modules include EM120R, EM121R, EM160R, EM161R.

2.3.1. EM120&EM160

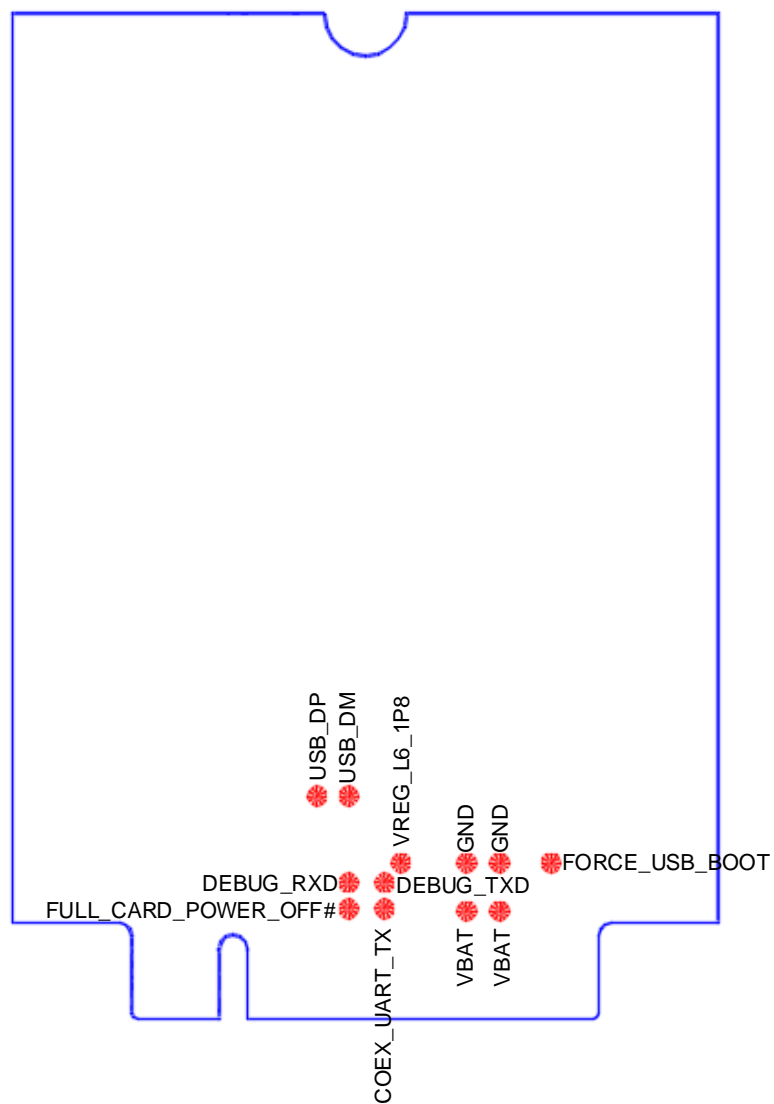


Figure 4: EM120&EM160 Test Points (BOT VIEW)

2.3.2. EM121&EM161

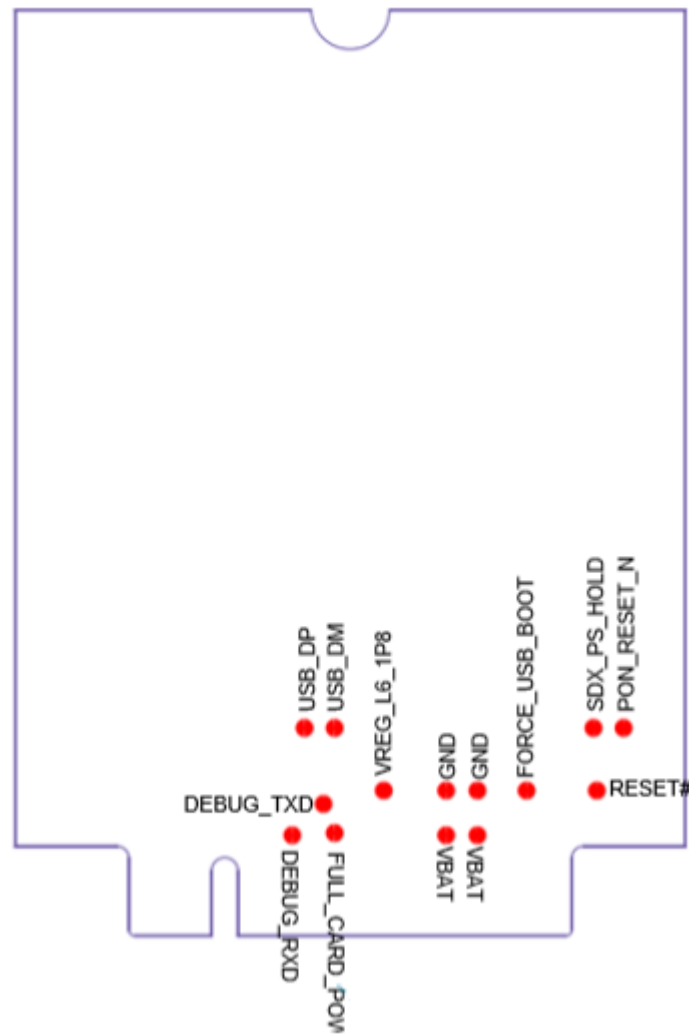


Figure 5: EM121&EM161 Test Points (BOT VIEW)

2.4. EP06 Series Modules

EP06 Series Modules include EP06-E, EP06-A.

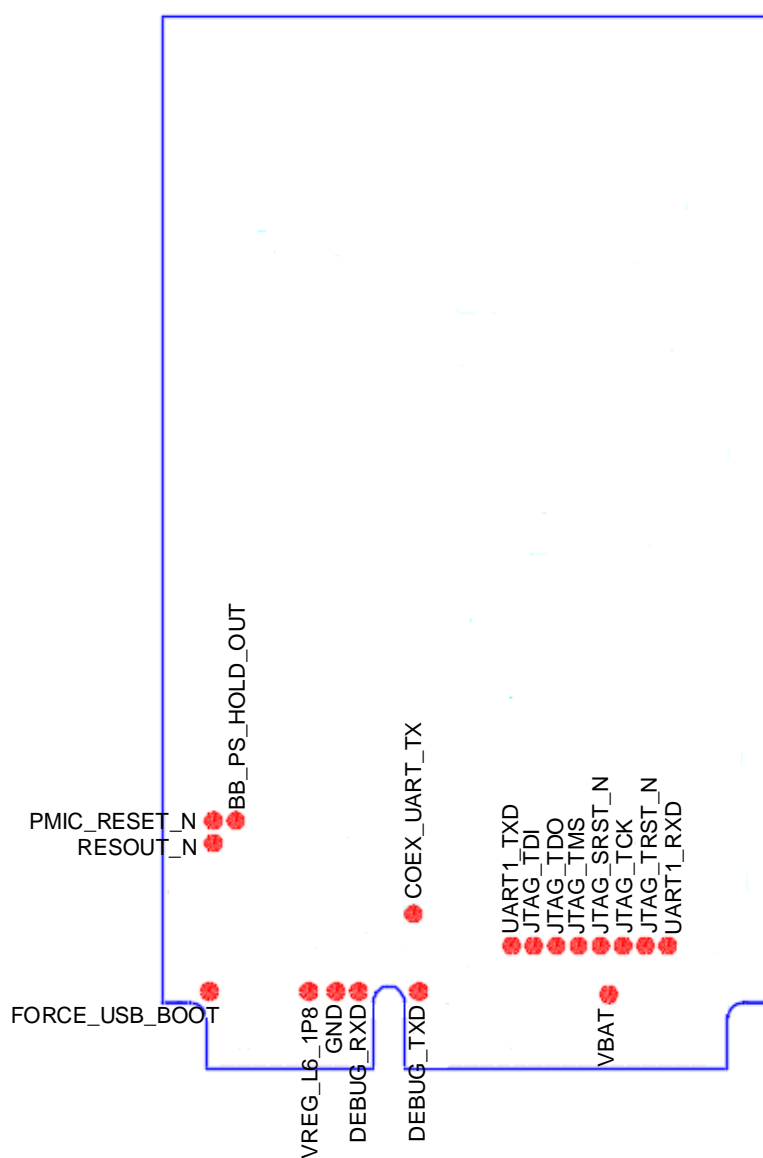


Figure 6: EP06 Series Test Points (TOP VIEW)

2.5. RM500Q Series Modules

RM500Q Series Modules include RM500Q, RM502Q, RM505Q, RM510Q.

2.5.1. RM500Q-GL&RM502Q-GL

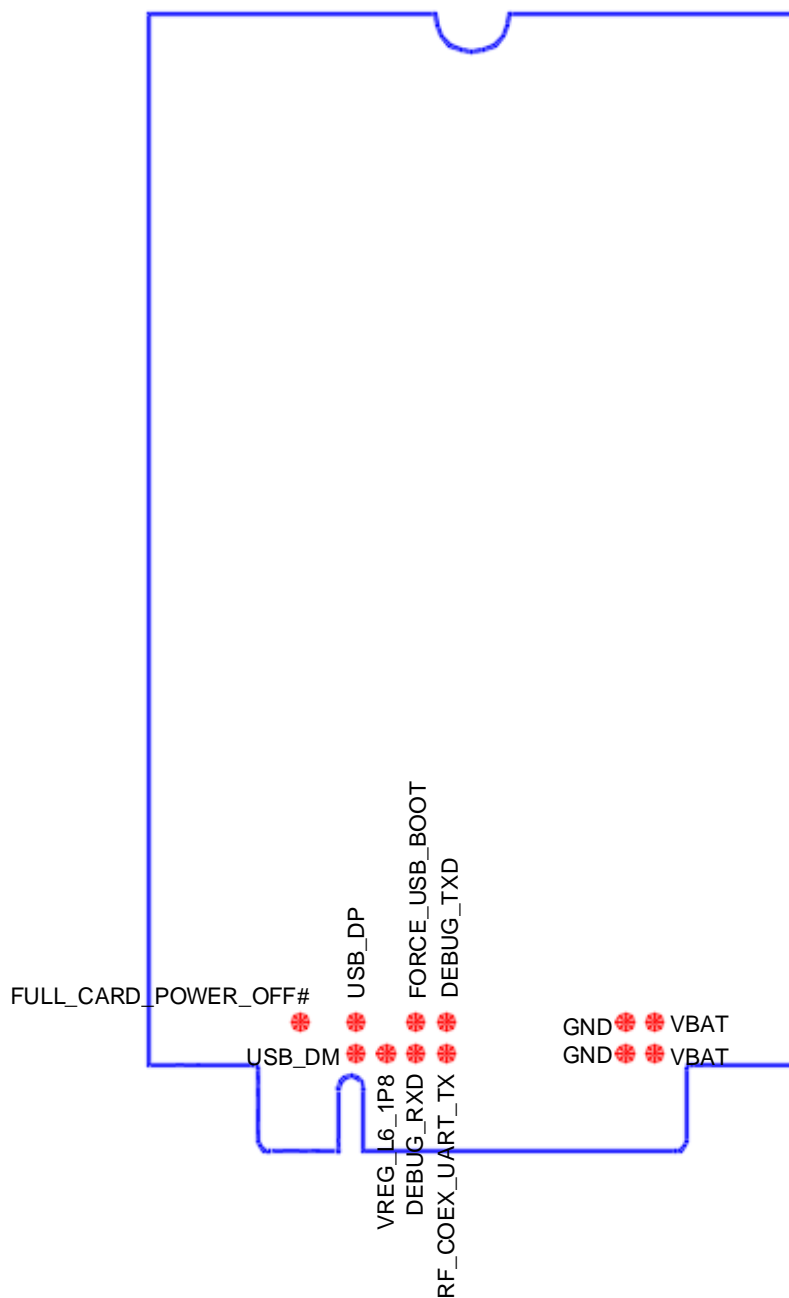


Figure 7: RM500Q-GL&RM502Q-GL Test Points (BOT VIEW)

2.5.2. RM500Q-AE&RM500Q-CN&RM502Q-AE&RM505Q-AE&RM510Q-GL

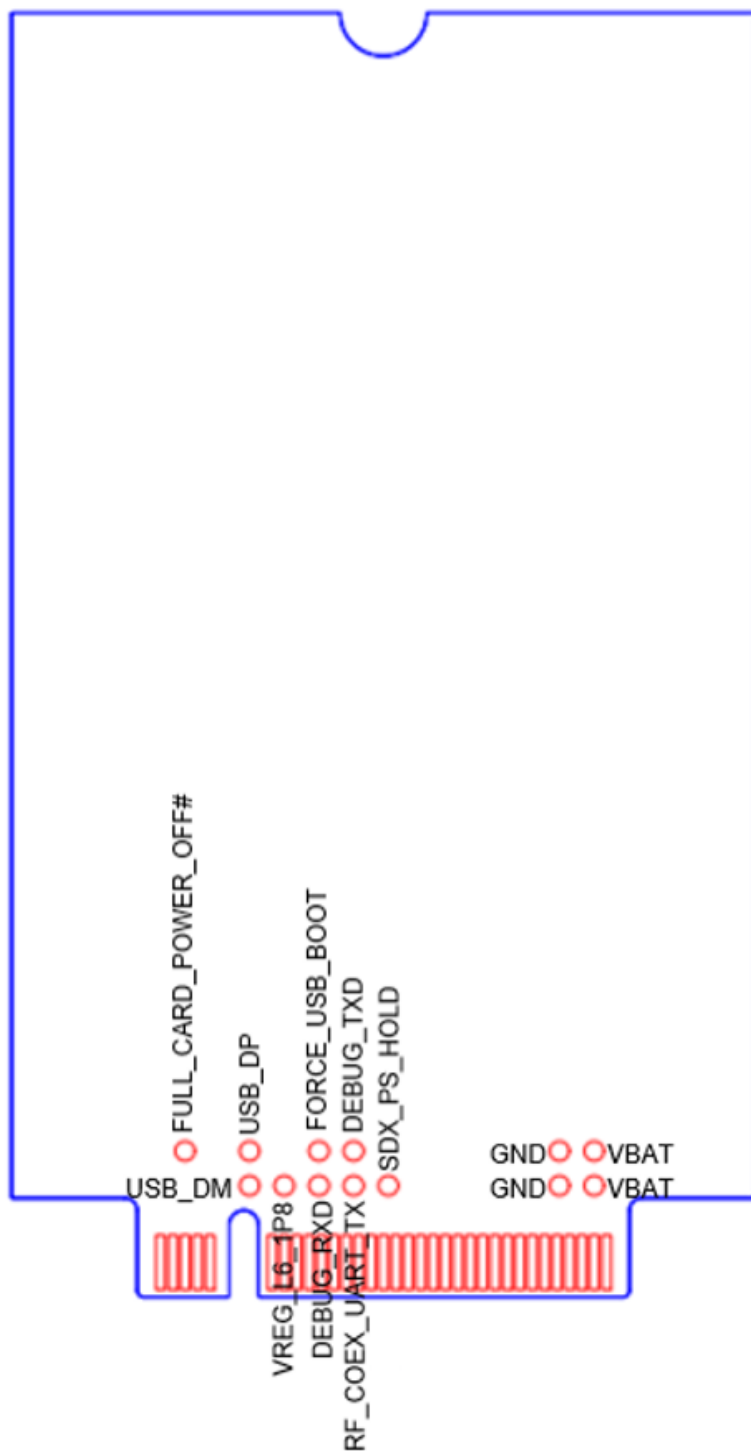


Figure 8: RM500Q-AE&RM500Q-CN&RM502Q-AE&RM505Q-AE&RM510Q-GL Test Points (BOT VIEW)

2.6. RM500K-CN

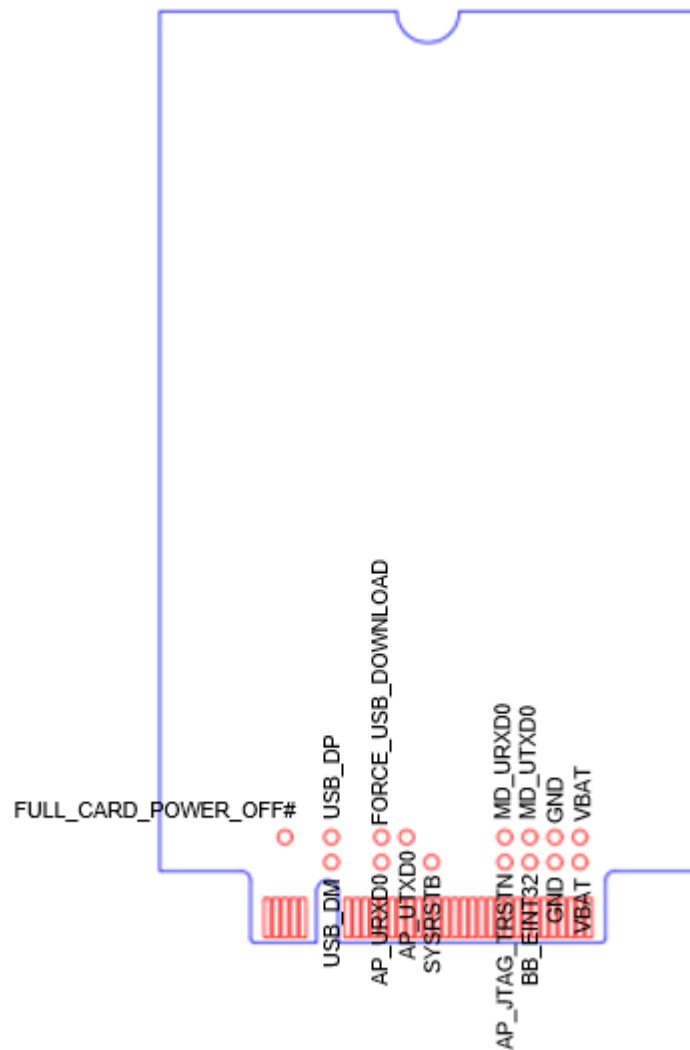


Figure 9: RM500K-CN Test Points (BOT VIEW)

2.7. RM500U-CN

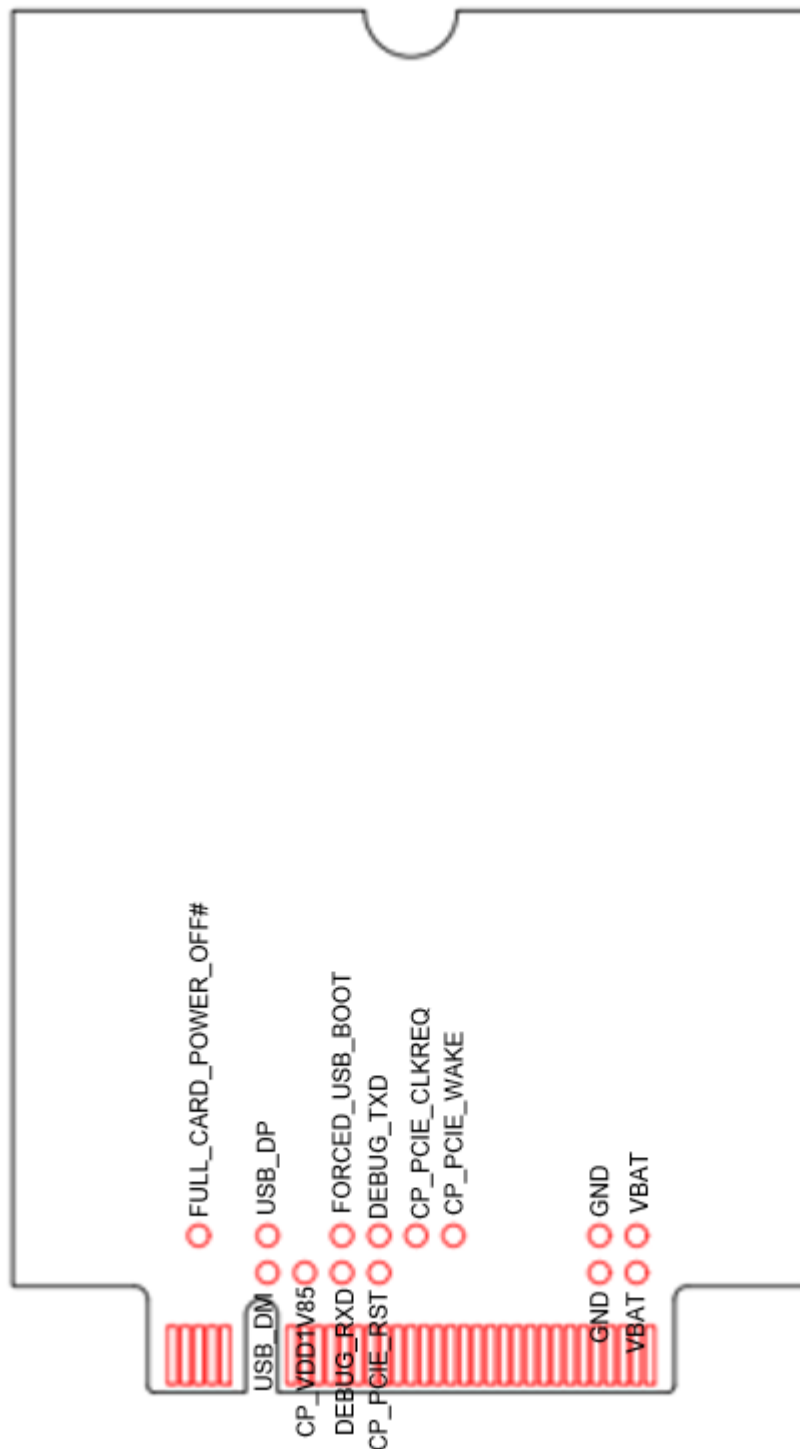


Figure 10: RM500U-CN Test Points (BOT VIEW)