Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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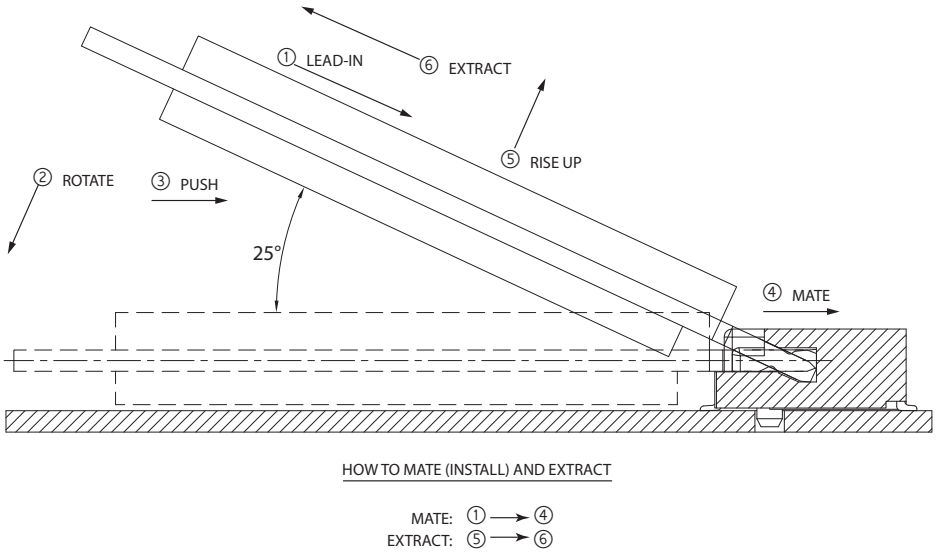
M.2 Development Kit

Kit Contents

- (1) M.2 development kit printed circuit assembly
- (2) Ultra-wideband 4G dipole swivel terminal antennas
- (6) RF cables—MHF4 micro coaxial cables (3 for Main/AUX/GNSS, 3 spares)
- (1) MHF4L connector push/pull tool
- (1) USB cable (Type A to micro-B 3.0)
- (1) AC wall adapter power supply and international plug kit
- (1) micro-SIM to SIM adapter
- (2) Thermal pads (1 to install on heat shield, 1 spare). Pad type: 29.0 x 39.5mm TENNVAC GP5000
- (2) M2x3 Phillips head module screws (1 to install module, 1 spare)

Module Insertion

1. Remove backing from the thermal pad (both sides), and position the thermal pad on the heat sink.
2. Insert the module as shown. (Insert at a 25º angle, rotate down, and push fully into the connector.)



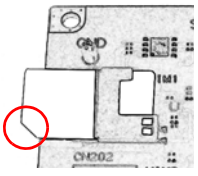
HOW TO MATE (INSTALL) AND EXTRACT

MATE: ① → ④
EXTRACT: ⑤ → ⑥

3. Secure the module with an M2 screw.

SIM Card Connection

1. Slide the SIM card into CN202 (top left corner of the PCB), noting the location of the notched corner. (If ESIM is enabled, DO NOT use a SIM in CN202.)
2. If supporting dual SIMs, insert a second SIM card into CN206.



Power Source Selection

Connector	Jump	Description	Connector(s) to use
CN101 (PWR IN SELECT)	Pins 1 & 2	Power provided by barrel jack (AC adapter)	CN103
	Pins 3 & 4	Power provided by banana jack (3.125–4.4VDC) Disable on-board LDO	CN114 (VCC) & CN116, or CN115 (VCC_MODULE) & CN116
	Pins 5 & 6	Power provided by USB cable	CN105

2400430, Rev. 1

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Switch Settings

Switch	Position	Default	Operation	Description
SW100	1	Off	3.0V	Select voltage for EM module (When selected power source is barrel jack or USB cable)
	2	On	3.3V	
	3	Off	3.6V	
	4	Off	4.2V	
SW200	1	Off	SIM DETECT 1	On=Ignore SIM 1 Detect; Off=Normal mode
	2	Off	SIM DETECT 2	On=Ignore SIM 2 Detect; Off=Normal mode
	3	Off	ESIM ENABLE	On=Enable ESIM; Off=Disable ESIM (Note: Leave switch in OFF position; ESIM is not populated.)
	4	Off	W_Disable1_N	On=Set to logic low; Off=Set to logic high
	5	Off	W_Disable2_N	On=Set to logic low; Off=Set to logic high
	6	Off	DPR	On=Set to logic low; Off=Set to logic high
	7	Off	SIM2 DISABLE	On=Disable SIM 2; Off=Enable SIM 2
	8	On	Power ON	On=Enable module; Off=Disable module
	9	On	Enable 1.8V—VCC Module	On=Enable 1.8V; Off=Disable 1.8V
	10	Off	NC	Not connected
SW201	Button switch			Reset Module

Test Points

Connector	Pin #	Description
CN207	1	NC
	2	POWER_OFF
	3	NC
	4	W_DISABLE_N
	5	NC
	6	W_DISABLE2_N
	7	VBAT
	8	WAKE_ON_WWAN_N
	9	UIM2_RST
	10	UIM1_CLK
	11	UIM2_CLK
	12	UIM_RST
	13	UIM2_DATA
	14	UIM_DATA
	15	UIM2_VCC
	16	UIM_VCC
	17	COEX3
	18	DPR
	19	UART_RXD
	20	UART_TXD

Connector	Pin #	Description
CN208	1	NC
	2	GND
	3	VBAT
	4	NC
	5	PCM_CLK
	6	UIM1_DET
	7	PCM_DIN
	8	RESET_N
	9	PCM_OUT
	10	WWAN_LED
	11	PCM_SYNC
	12	I2C_DATA
	13	NC
	14	ANT_CTL0
	15	NC
	16	ANT_CTL1
	17	UIM2_DET
	18	ANT_CTL2
	19	I2C_CLK
	20	ANT_CTL3