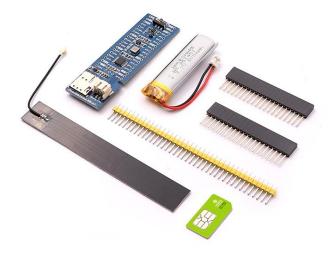


SIM7020E NB-IoT Module for Raspberry Pi Pico User Manual

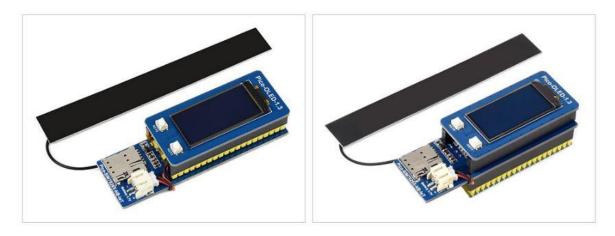


Raspberry Pi Pico Header Compatibility:

The Pico Can Be SMD-Mounted (Left), Or Attached Via Female Header (Right)



Connecting with Other Expansion Module and Antenna



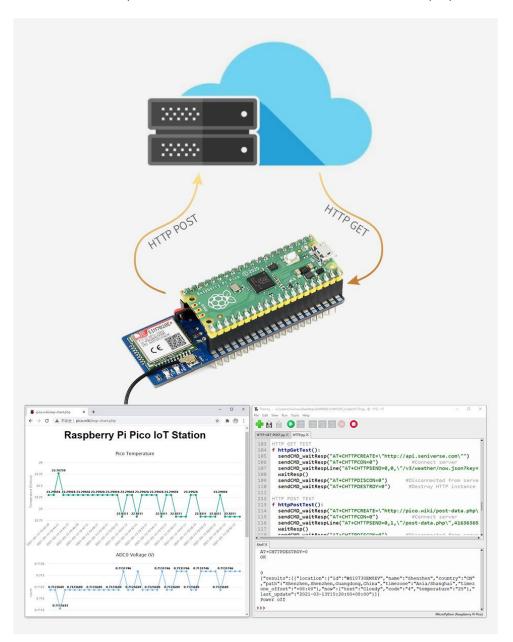
Cloud Communication:

Supports Communication Protocols Including: TCP/UDP/HTTP/HTTPS/MQTT/LWM2M/COAP/TLS



Application Example:

Via NB-IoT network, the Pico is able to fetch weather information by HTTP GET, and send its temperature to server via HTTP POST, then display it on webpage in real time



Pinout Definition:

		OFF ON	-	
VBUS	40	OVEUS (1	GP0
VSYS	39		2	GP1
GND	38		3	GND
3V3_EN	37		4	GP2
3V3(OUT)	36	() 3V3 () () () () () () () () () () () () ()	5	GP3
ADC_VREF	35	OVREF	6	GP4
GP28	34		7	GP5
GND	33		8	GND
GP27	32	● GP27	9	GP6
GP26	31	GP26 GP26 GP7	10	GP7
RUN	30		11	GP8
GP22	29	O GP22 GP9 GP9 O	12	GP9
GND	28		13	GND
GP21	27	● GP21 ● GP10 ●	14	GP10
GP20	26	● GP20 GP11 ●	15	GP11
GP19	25	● GP19 Ξ Ξ GP12 ●	16	GP12
GP18	24		17	GP13
GND	23		18	GND
GP17	22		19	GP14
GP16	21	@ GP16 () () () () GP15 ()	20	
	1			

VBUS		Power supply 5V~5.5V		
VSYS		Power supply 3.7V~4.2V		
GND		Ground		
GP0	RXD	Module UART RX		
GP1	TXD	Module UART TX		
GP17	DTR	Used to wake-up module		
GP14	PWR	Pull down to shutdown module		

