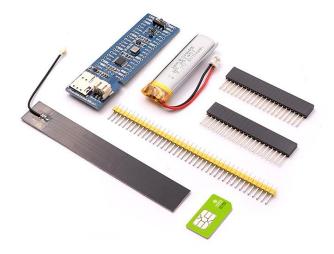
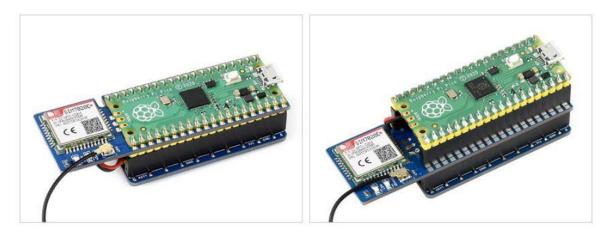


# SIM7020E NB-IoT Module for Raspberry Pi Pico User Manual

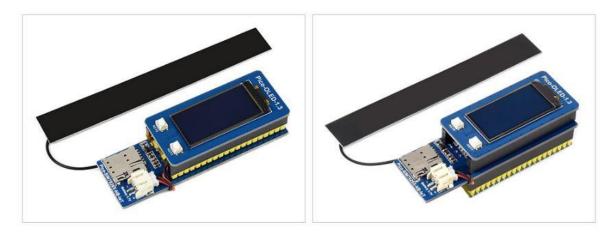


#### Raspberry Pi Pico Header Compatibility:

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



Connecting with Other Expansion Module and Antenna



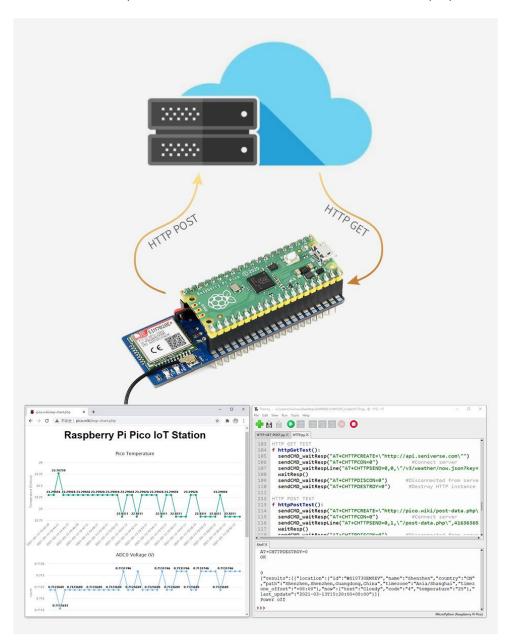
#### Cloud Communication:

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		

