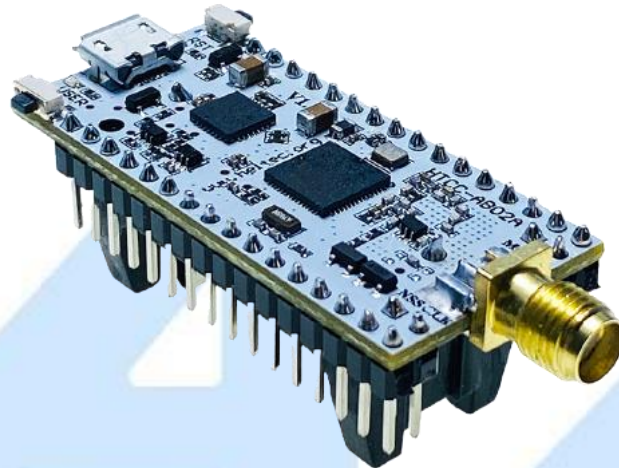



## CUBECCELL-1/2AANODE

### MODULO DE COMUNICACION LoRA ASR6502 COMPATIBLE CON ARDUINO



CubeCell (TM) is a new product series made by Heltec team, mainly for LoRa/LoRaWAN node applications. CubeCell (TM) series is based on ASR605x (ASR6501, ASR6502), those chips are already integrated with the PSoC® 4000 series MCU (ARM® Cortex® M0+ Core) and SX1262. We have done a lot of migration and development, making it perfectly Arduino-Compatible®, can run the LoRaWAN protocol stably, on-board 1/2 AA battery holder allow users use a battery easily. HTCC-AB02A is a Dev-Board. Friendly designed for developers, easy to verify communication solutions.

	AG Electrónica S.A.P.I. de C.V. República del Salvador N° 20 Segundo Piso Teléfono: 55 5130 - 7210		
ACOTACIÓN: N/A	<a href="http://www.agelectronica.com">http://www.agelectronica.com</a>	ESCALA: N/A	REALIZO: JFRR
TOLERANCIA: N/A	<b>MODULO DE COMUNICACION LoRA ASR6502 COMPATIBLE CON ARDUINO</b>		
TOLERANCIA: N/A	Fecha: 20/05/2021	<b>No. Parte: CUBECCELL-1/2AANODE</b>	

Resource	Parameter	
Master Chip	ASR6502 (48 MHz ARM® Cortex® M0+ MCU)	
Wireless Communication	LoRa	
	Node-to-node communication or LoRaWAN	
LoRa Chip	SX1262	
LoRaWAN Area	hardware version	Support frequency
	LF	EU433
		CN470
	HF	IN865
		EU868
		US915
		AU915
		KR920

		AS923
LoRa Maximum Output Power	22dB $\pm$ 1dB	
Hardware Resource	UART x 2; SPI x 2; I2C x 2; SWD x 1; 12-bits ADC input interface x 3; 8-channel DMA engine; GPIO x 16	
FLASH	128KB internal FLASH	
RAM	16KB internal SRAM	
Interface	Micro USB x 1; LoRa Antenna interface(SMA) x 1; 16 x 2.54 pin x 2+2 x 2.54 pin x 2	
Maximum Size (Including protruding parts such as switch and battery compartment)	56.6 x 24 x 21.5 mm	
USB to Serial Chip	CP2102	
Battery	1/2AA Lithium	
Solar Energy	x	
Battery Detection Circuit	√	
External Device Power Control (Vext	√	
Low Power	Deep Sleep 3.5 $\mu$ A	
Display Size	No display	

Working Temperature		-40~80°C		
Power Supply	USB powered (≥500mA)	4.7V	5V	6V
	Lithium powered (≥250mA)	3.3V	3.7V	4.2V
	3.3V (pin) powered (≥150mA)	2.7V	3.3V	3.5V
	5V (pin) powered (≥500mA)	4.7V	5V	6V
Power Consumption(mA)	LoRa Rx Mode		10mA	
	LoRa 10dB output		70mA	
	LoRa 14dB output		90mA	
	LoRa 17dB output		100mA	
	LoRa 20dB output		105mA	
	Sleep Mode (USB powered)		9.6mA	
	Sleep Mode (VBAT/battery powered)		11μA	

	Sleep Mode (3.3V header powered)		3.5 $\mu$ A	
Output	3.3V pin output			500mA
	5V pin output (USB powered only)		Equal to the input current	
	External device power control (Vext 3.3V)			350mA

# Electrónica

## ¿Qué vamos a innovar hoy?