

# UM000-YCHIOT UWB PRODUCT SELECTION GUIDE

## YCHIOT UWB - RF MODULE SELECTION

Product	Model	Antenna Interface	Description	Purchase
Short Range	DWM1000-CA	ceramic antenna	Decawave DWM1000 module	<a href="#">Link</a>
Medium Range	DWM1000-SMA	SMA	Integrated with DW1000 chip, Pin-To-Pin with QORVO DWM1000	<a href="#">Link</a>
Long Range	MAX2001-CA	ceramic antenna	Integrated with DW1000 chip, 3.7G – 4.2G, long range, Pin-To-Pin with DWM1000	<a href="#">Link</a>
Long Range	MAX2001-SMA	SMA	Integrated with DW1000 chip, 3.7G – 4.2G, long range, Pin-To-Pin with DWM1000	<a href="#">Link</a>
Long Range	MAX2001-IPEX	IPEX	Integrated with DW1000 chip, 3.7G – 4.2G, long range, Pin-To-Pin with DWM1000	<a href="#">Link</a>
Long Range	MAX2001-CA	ceramic antenna	Integrated with DW1000 chip, 3.7G – 4.2G, long range, Pin-To-Pin with DWM1000	<a href="#">Link</a>
Long Range	MAX2001-SMA	SMA	Integrated with DW1000 chip, 3.7G – 4.2G, long range, Pin-To-Pin with DWM1000	<a href="#">Link</a>
Long Range	MAX2001-IPEX	IPEX	Integrated with DW1000 chip, 3.7G – 4.2G, long range, Pin-To-Pin with DWM1000	<a href="#">Link</a>

## YCHIOT UWB - EVALUATION BOARD SELECTION

Product	Model	Ranging	Description	Purchase
UWB EVB- Mini5	Mini5-CA	30M	Integrated with DWM1000 module, STM32G0 MCU to achieve high-precision positioning.	<a href="#">Link</a>
UWB EVB -Mini5	Mini5-SMA	80M	Integrated with DWM1000 module, STM32G0 MCU to achieve high-precision positioning.	<a href="#">Link</a>
UWB- Mini3sPlus	Mini3sp-1A	300M	Integrated with DW1000 chip , on-board Power amplifier, STM32F103, SMA antenna interface.	<a href="#">Link</a>
MAX2001 EVB	Mini4sp-C2-SMA	500M	Equipped with MAX2001 module, SMA interface, with battery management, accelerometer.	<a href="#">Link</a>
	Mini4sp-C2-CA	400M	Equipped with MAX2001 module, ceramic antenna, with battery management, accelerometer.	<a href="#">Link</a>
	Mini4sp-C2-IPEX	500M	Equipped with MAX2001 module, IPEX interface, with battery management, accelerometer.	<a href="#">Link</a>
MAX5007 EVB	Mini4sp-C5-SMA	1000M	Equipped with MAX5007 module, SMA interface, with battery management, accelerometer.	<a href="#">Link</a>
	Mini4sp-C5-CA	700M	Equipped with MAX5007 module, ceramic antenna, with battery management, accelerometer.	<a href="#">Link</a>
	Mini4sp-C5-IPEX	1000M	Equipped with MAX5007 module, IPEX interface, with battery management, accelerometer.	<a href="#">Link</a>

## YCHIOT UWB – CONSUMER PRODUCT SELECTION

Product	Model	Description	Purchase
UWB Material Tag	ProTag	Equipped with MAX2001 CA module, with battery management, 3-6 months battery life	<a href="#">Link</a>
UWB Badge Tag	ProCard	Equipped with MAX2001 CA module, with battery management, 3-6 months battery life	<a href="#">Link</a>
UWB Work Hat	ProTag-SL3001	Equipped with MAX2001 CA module, with battery management, 3-6 months battery life	<a href="#">Link</a>
UWB Ceiling anchor	ProAnc	Equipped with MAX2001-IPEX module, 3db directional antenna, support POE/Ethernet, USB	<a href="#">Link</a>
UWB Wall-mounted anchor	ProAnc	Equipped with MAX2001-IPEX module, 10db directional antenna, support POE/Ethernet, USB	<a href="#">Link</a>
UWB Outdoor waterproof anchor	ProAnc	Equipped with MAX2001-IPEX module, 14db FRP antenna, support POE/Ethernet, USB	<a href="#">Link</a>

## YCHIOT UWB - ACCESSORY SELECTION

Product	Model	Description	Purchase
Module Deck Board	DW-DECK	Designed for DWM1000 and MAX2001 modules, soldering the module on deck board to lead wire.	<a href="#">Link</a>
Tripod	YC-SJJ	Maximum height 2. 1m, with clip, for fixing the UWB base station	<a href="#">Link</a>
ST-LINK Debugger	STLINK-V2	Program firmware update downloader (gifted with shipping)	<a href="#">Link</a>
Power Charger	BAT-1600mah	The kit tests the mobile power supply at a capacity of 1600 mAh	<a href="#">Link</a>

## YCHIOT UWB – UWB CABLE SELECTION

Name	Model	Interface	Description	Purchase
Connection Cable	CB-IPEX-SMA-10	IPEX - SMA	IPEX interface turns to SMA interface, suitable for modules which are IPEX antenna interface. (e.g. MAX2001-IPEX)	<a href="#">Link</a>
Connection Cable	CB-SMA-SMA-10	SMA - SMA	SMA interface turns to SMA interface, suitable for modules which are SMA antenna interface. (e.g. MAX2001-SMA)	<a href="#">Link</a>

## YCHIOT UWB - UWB ANTENNA SELECTION

Product	Model	Direction	Gain	Characteristics	Purchase
Ceramic antenna	ACS5200HFAUWB	omni antenna	0dbi	Small size	<a href="#">Link</a>
Glue rod antenna	UWB-SMA11	omni antenna	3dbi	11cm length and widely used in application	<a href="#">Link</a>
PCB antenna	UWB-WB002	omni antenna	2dbi	4cm x3.1cm, as thin as a wafer	<a href="#">Link</a>
PCB antenna	UWB-WB003	omni antenna	2dbi	2.5cm x1.3cm, optimized for channel 5	<a href="#">Link</a>
Waterproof fiberglass antenna	UWB-SMA20	omni antenna	5dbi	20cm length and waterproof	<a href="#">Link</a>
90-degree directional antenna	UWB-DA20	directional antenna	10dbi	10dB gain and 90 degree orientation	<a href="#">Link</a>

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