UT-329 Smart Watch

Introduction

CyraSecurity UT-329 is a smart watch designed based on ultra-wideband (UWB) technology. It supports TDoA, ToF, and AoA high-precision positioning, and is equipped with BLE and three-axis accelerometer-assisted positioning. UT-329 supports heart rate, body temperature, blood oxygen and other physical signs monitoring, and is equipped with a 1.45-inch full-touch display that supports battery, time, physical signs, alarms and other information display. UT-329 is equipped with a motor and supports SOS active alarm, fall alarm, and alarm issuing. UT-329 supports wrist-band wear, and the product protection level is IP67. It can be widely used in various fields such as Industry 4.0, factories, government and enterprise exhibition halls, data center and prison.

Main Features

- Based on IEEE 802.15.4z UWB
 - Nanosecond-level pulse signals achieve centimeter-level positioning accuracy

Wide Application Area

- High-band (CH5/CH9) design to support global applications

• Ultra-Low Power Consumption

Intelligent sleep mode, ultra-low power consumption design

Lightweight and Convenient

Compact design, easy to wear and moving around

Protection Level

IP67 protection level, better environmental adaptability

SOS Button

Active alarm and call for help with OneClick

Alarm

- Support anti-collision ranging and actively report alarms with vibration prompts
- The platform issues emergency notification information,
 screen warnings and vibration alarm reminders (supports plug-in interface with customer platforms, eg. ISMS)

Monitoring

 Supports heart rate, blood oxygen saturation, body temperature measurement, and all-weather intelligent physical sign monitoring

• BLE 5.1

- Assisted positioning to achieve Bluetooth positioning

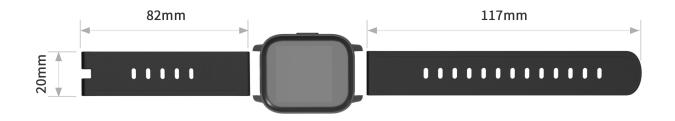
integration

• Full Touch Display

Time, battery, physical signs, step counting, short messages,
 etc., full-color touch screen for simple operation

Product





UT-329 Smart Watch

Product Specifications

Item	Description		
Overview			
Product Model	UT-329		
Related	IEEE 802.15.4z		
Specifications	IEEE 802.15.1		

Charging Interface	2 pin Magnetic charging		
Charging Voltage	DC 5 V		
Instantaneous			
Power	< 1 W		
Consumption			
Standby Time	> 1 Month		
Refresh Rate	0.1~20 Hz (Adjustable)		
Button	Wake up, turn off the screen	OneClick	
	SOS Alarm	Press for 3	
	Turn On	Press for 5	
	Restart	OneTouch	
	Turn Off	OneTouch	
RF Specifications (UWB)			
Working	6.24 GHz~6.73 GHz (channel 5)		
Frequency Band	7.74 GHz~8.23 GHz (channel 9)		
Conned Data	850 Kbps		
Speed Rate	6.8 Mbps		
Output Power	≤-41 dBm/MHz (Typical value), power		
(25°C)	adjustable		

Channel Bandwidth RF Specification (BLE) Working Frequency Band Speed Rate 1 Mbps Output Power (25°C) Display Specifications Screen Type LCD Dimensions (Inches) Resolution (Pixels) Z40×240 (RGB) Touch Full touch screen UWB status, time, battery, heart rate, body temperature, blood oxygen, step counting,		
Bandwidth RF Specification (BLE) Working Frequency Band Speed Rate 1 Mbps Output Power (25°C) Display Specifications Screen Type LCD Dimensions (Inches) Resolution (Pixels) Z40×240 (RGB) Touch Full touch screen UWB status, time, battery, heart rate, body		
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Touch Full touch screen UWB status, time, battery, heart rate, body		
UWB status, time, battery, heart rate, body		
Content Display temperature blood oxygen step counting		
temperature, blood oxygen, step counting,		
messages		
Language Support Simplified Chinese, English		
Software Specifications		
UWB Mode TDoA/ToF/AoA		
Hibernate Mode SmartSleep®		
Alarm Upload SOS Active alarm		

	Low battery warning	
	Fall warning	
	Extremely long inactivity alarm	
	Anti-collision ranging active alarm	
	Vibration (prompt, alarm, strong alarm)	
Alarm Issuance	LCD displays emergency notification	
Alaitti issualice	information (manufacturer needs to provide	
	connection interface)	
Interface	Swipe left or right on the touch coreen	
Switching	Swipe left or right on the touch screen	
Physical Sign	Active measurement of heart rate, blood	
Monitoring	oxygen saturation, and body temperature	
(Optional	Cycle monitoring of heart rate, blood oxyger	
Function)	saturation and body temperature	
Exercise Volume		
Management	Display of steps and achievement progress	
(Optional	(cleared at 0:00 every day)	
Function)		
Assisted		
positioning	Assisted positioning through BLE and three-	
(optional	axis acceleration sensors	
(optional		

Message				
Management	Store up to 10 messages			
	Language Selection			
Set Up	Product information display			
	Turn Off			
Upgrade	ОТА			
Configuration	BLE configuration			
Physical Specifications				
Dimensions	12mmv25mmv12mm			
(mm)	42mm×35mm×13mm			
Stran Siza (mm)	Supports 200mm wrist circumference,			
Strap Size (mm)	3mm thick			
Weight (grams)	38 (including strap)			
Environmental Specifications				
Temperature	Working Temperature	-20°C~65°C		
	Storage Temperature	-25°C~65°C		
Temperature	Humidity	5%~95% With no		
		condensation		
Waterproof and	ID67			
Dustproof	IP67			
Flame Retardant	UL94 V-0			
Grade				

RoHs	Compatible		
Compliance	EMC	GB/T 17626-2 IEC 61000-4 Level 3	
		Class A	
	SRR	Technology No [2008] No. 354	
	С	standard	

Delivery Content

Name	Description	Quantity	Part number
UT-329	Smart Watch	1	AA01UT329000
Magnetic			
Charging	2pin, length 630mm	1	AE0803630000
Cable			