# 深圳市安普盛科技有限公司

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# Data Sheet

编号	N20220909		
品牌	HMCORE		
品名	安普盛 HLR17		
安普盛型号	HLR17		
制作	WU		
审核	Xzz Siya		
批准			
日期	2022.09.09		

客户承认签印	
日期	

UNLESS OTHER SPECIF X=± X.X=± ANGLES=±	IED TOLERANCES ON: X.XX= HOLE DIA=±	HONMAX	深圳市安普	盛科技	技有队	艮公司
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			PAGE	1	OF	8

### **HLR17 Data Sheet**

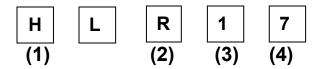
### 1. FEATURES:

- Light weight, compact
- K-BAND,
- Low cost
- Hidden mounting capability
- ●Operating Temp. : -20°C~+70°C
- Maintains operation through harsh weather conditions (temperature, light, rain)

### 2. APPLICATIONS:

- Building and smart home (IoT)
- Lighting control
- Air conditioning
- Industrial robotics (Manufacturing robotics)

### 3. PRODUCT IDENTIFICATION

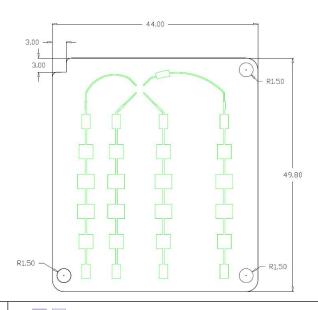


- (1) Honmax
- (2) Radar
- (3) (4) PartNo: 17

### 4. SHAPE AND DIMENSIONS:

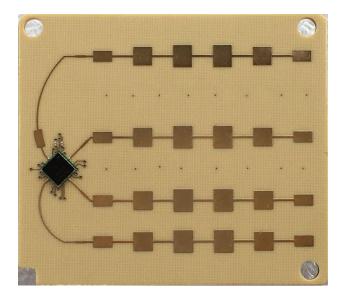
SIZE: 44x49.8 Unit: mm

Plate thickness: 1.6 mm



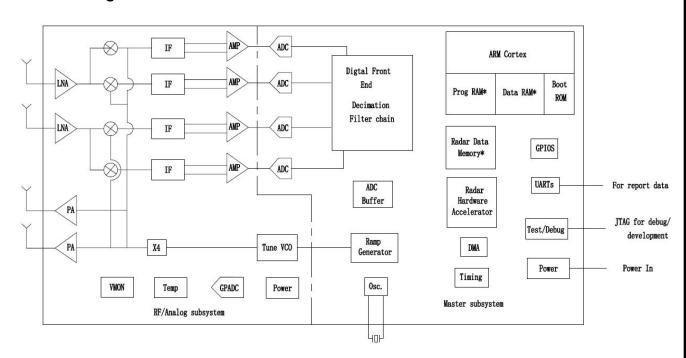
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TITLE: HLR17 Data Sheet		NO.	N20220909		P1	
			PAGE	2	OF	8

### PHOTO:





### **Block Diagram:**



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			PAGE	3	OF	8

# **5. Electrical Characteristics:**

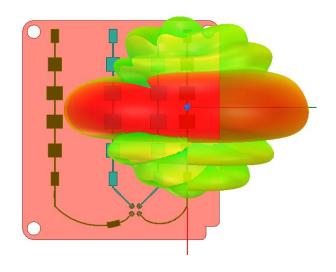
Characteristic	CONDITIONS	MIN	ТҮР	MAX	UNITS		
System							
transmit frequencies	delivery condition		K-B	AND			
TX1 output power	@25°C		5		dBm		
TX2 output power	@25°C		5		dBm		
Modulation	FMCW		_	_	-		
Update time			100		ms		
Communication			LADT	0000 hm	_		
Interface		,	JART	9600 bp	5		
Radar							
detection distance	@0 dBsm	0.5	-	6	m		
detection azimuth	<4m	-50	_	+50	deg		
angle	>4m	-35	-	+35	deg		
Maximum number of		-	-	3			
detection targets							

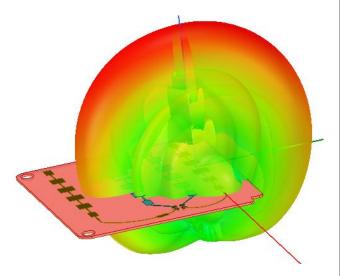
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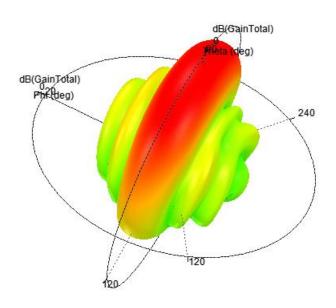
Antenna					
-6dB 波束	horizontal (-6dB)	-	±60	-	deg
	vertical (-6dB)	-	±13	-	deg
Other					
supply voltage		4.5	5	12	V DC
current		-	<150	-	mA
weight		-	9	-	g

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			PAGE	5	OF	8

## -6dB 波束:







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			PAGE	6	OF	8

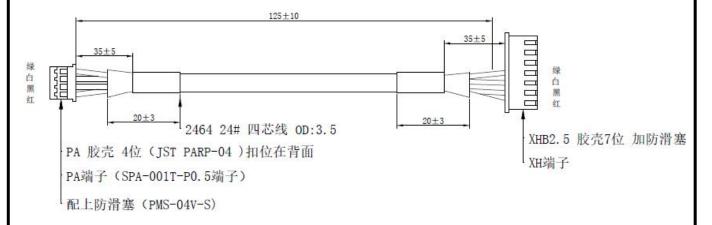
### **PIN INTERFACE**



PIN#	DESCRIPTION	IN/OUT	COMMENT
① PIN1	Power Supply	Input	4.5V-12V(建议5V)
② PIN2	GND	-	GND
③ PIN3	TXD	Output	TTL 3V3 (兼容5V)
④ PIN4	RXD	Input	TTL 3V3 (兼容5V)

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TITLE: HLR17 Data Sheet		DOCUMENT NO.	N202209	909		SPEC REV.
			PAGE	7	OF	8

### **6. Connecting line Description:**





### 7. Environmental Characteristics

### (1) Storage Condition:

The temperature should be within  $0 \sim 30^{\circ}$ C and humidity should be less than 60% RH. The product should be used within 1 year from the time of delivery.

### (2) Operating Temperature Range

Operating temperature range :  $-20^{\circ}$ C to  $+70^{\circ}$ C.

### 8. Rev history

Rev	Subjects	Author	Update time
2022/09/09	First published	WU	2022-09-09

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			PAGE	8	OF	8		