

Electronic price tag product introduction

Electronic price tag is an electronic display device with the function of sending and receiving information. It is mainly used in supermarkets, convenience stores, pharmacies and other electronic tags to display price information. Placed on the shelf, the electronic display device can replace the traditional paper price tag. Each electronic price tag is connected to the cloud database through a wireless network, and the latest product information is displayed through the screen on the electronic price tag. Electronic price tags effectively integrate shelves into a computer program, eliminating the need to manually change price tags and achieving price consistency between checkout and shelf. A complete electronic price tag system consists of server system, wireless access point, electronic price tag and intelligent handheld terminal equipment. Firstly, the commodity information is obtained from the customer database, and then encoded by the electronic price tag application software installed inside the server system, and the price information that needs to be updated is transmitted to the wireless access point through Ethernet. Wireless access points transmit rf radio signals containing commodity data information to the corresponding electronic price tags; An electronic price tag is a wireless data transceiver with an identification number. They can restore the received RF signal to a valid digital signal and display it.

The features of the Nebular Ultra series are:

price tag size: 1.54Inch

The whole series functions in black, red, black, white and yellow (the frozen price tag only supports black and white).

The system functions at 2402MHz to 2480MHz.

Lo-fi IP67 waterproof and dust-proof design.

Buy a Built-in LED light, which displays seven colors, to assist in product search, promotion alerts, stock out of stock and battery level alerts, etc.

Buy a Built-in NFC chip. NFC devices (mobile phones, PDAs, and remote controls) can directly operate price tags, and perform functions such as binding and unbinding, flashing, and page

cutting. Virtual Gateway Supports multiple functions, including binding and unbinding, update, fast flashing, multi-page storage, page cutting, location, temperature collection, and NFC.

Crystal oscillator: 26MHZ $\pm$ 10PPM

Virtual gateway Supports AES-128 encryption.

Supports wireless upgrades.

1) Power Supply

DC3.3V Power supply or battery

2) Minimal System

The CPU, Control the work of the various parts of machine

The Flash IC primarily responsible for program files and data storage

3) Display

The Display interface cable can be connected to EPD Screen.

Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	157
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-2.4dBi(Declared by applicant)

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
4	2402.0	44	2422.0	84	2442.0	124	2462.0
5	2402.5	45	2422.5	85	2442.5	125	2462.5
6	2403.0	46	2423.0	86	2443.0	126	2463.0
7	2403.5	47	2423.5	87	2443.5	127	2463.5
8	2404.0	48	2424.0	88	2444.0	128	2464.0
9	2404.5	49	2424.5	89	2444.5	129	2464.5
10	2405.0	50	2425.0	90	2445.0	130	2465.0
11	2405.5	51	2425.5	91	2445.5	131	2465.5
12	2406.0	52	2426.0	92	2446.0	132	2466.0
13	2406.5	53	2426.5	93	2446.5	133	2466.5
14	2407.0	54	2427.0	94	2447.0	134	2467.0
15	2407.5	55	2427.5	95	2447.5	135	2467.5
16	2408.0	56	2428.0	96	2448.0	136	2468.0
17	2408.5	57	2428.5	97	2448.5	137	2468.5
18	2409.0	58	2429.0	98	2449.0	138	2469.0
19	2409.5	59	2429.5	99	2449.5	139	2469.5
20	2410.0	60	2430.0	100	2450.0	140	2470.0
21	2410.5	61	2430.5	101	2450.5	141	2470.5
22	2411.0	62	2431.0	102	2451.0	142	2471.0
23	2411.5	63	2431.5	103	2451.5	143	2471.5
24	2412.0	64	2432.0	104	2452.0	144	2472.0
25	2412.5	65	2432.5	105	2452.5	145	2472.5
26	2413.0	66	2433.0	106	2453.0	146	2473.0
27	2413.5	67	2433.5	107	2453.5	147	2473.5
28	2414.0	68	2434.0	108	2454.0	148	2474.0
29	2414.5	69	2434.5	109	2454.5	149	2474.5
30	2415.0	70	2435.0	110	2455.0	150	2475.0
31	2415.5	71	2435.5	111	2455.5	151	2475.5
32	2416.0	72	2436.0	112	2456.0	152	2476.0
33	2416.5	73	2436.5	113	2456.5	153	2476.5
34	2417.0	74	2437.0	114	2457.0	154	2477.0
35	2417.5	75	2437.5	115	2457.5	155	2477.5
36	2418.0	76	2438.0	116	2458.0	156	2478.0
37	2418.5	77	2438.5	117	2458.5	157	2478.5
38	2419.0	78	2439.0	118	2459.0	158	2479.0
39	2419.5	79	2439.5	119	2459.5	159	2479.5
40	2420.0	80	2440.0	120	2460.0	160	2480.0
41	2420.5	81	2440.5	121	2460.5		

42	2421.0	82	2441.0	122	2461.0		
43	2421.5	83	2441.5	123	2461.5		