ARS-EA4000T-Product functional specification

V1.0

Product Appearance

Basic Features

- Support multiple channels data transceiver, work with keypads support multiple channels can greatly increase communication speed.

- The capacity of single station keypads can be 4 times larger than that of EA2000T base station and EA1000T base station

- Support free-match mode with single base station at same time, this mode will allow non-matched keypad with unique keypad ID to communicate with base

- Support EA4000R mobile base station, ensure reliable data collection in complex environment.

- Support all EVS/ARS series models with vote function in 2.4G frequency. Support Non-upgraded keypads, but do not support speed improvement and free-match mode.

- Support plug and play USB connection in window systems, without the requirement to install driver.

- Support RJ45 connection, it can be connected to computers through TCP/IP network.

- Software recognizes and connects EA4000T automatically. Support multiple-base station mode.

Function Management

- ● **On-line Monitoring**

  - monitor voting progress, delivering status and power condition of keypads

- ● **On-line test**

  Keypads can simulate real user key presses for demonstration without press manually, applying to keypads test and system assessment.

- ● **Communication Test**

  -test successful communication rate, signal strength and battery voltage of a specified keypad.

- ● **Base station configuration**

  - set base station channel, power and voting system basic features.

- ● **Communication Channel Assessment**

  - evaluate wireless communication interference in the around environment.

- ● **Software Dog**

  -2 EEPROM areas with 16 characters password available for customers to encrypt specifications.

Specifications

1、Outlook

- ● ABS plastic cover with a supporting plate and swirl holes available to be fixed on a shelf.

- ● Size:137mm ×125mm × 25mm（Length×Weight×Height，antenna not included）

- ● Weight：215g

2、Display

- ● 6 LED lights

  - 1 power light

  - 1 light to indicate USB or TCP/IP connection status

  - 4 lights to indicate keypads communication status of base.

3、Communication Technology

- ● Adopting 2.4G Hz RF digital communication technology featured on multiple channels, two-way   low power modules

- ● Frequency：2400.0M-2483.0MHz，Channels：32，4 Channels work at the same time.

- ● Power：<+22dBm，the power level of high, middle and low can be set in application software.

- ● Wireless communication interface assessment for 32 channels

- Adopting multi-module，omni-directional communication to greatly reduce ineffective communication areas.

4、Connection types

- 1 USB connector, it can use USB 2.0 line，extending as far as 10 meters.
- 1 RJ45 network connector，with network cable as long as 50 meters (15V DC power supply is needed in this connection mode).
- 1 connection mode switch（USB/NET）

5、Communication Distance and Speed

- 60 meters from a keypads to base station in sight
- Non-interruption short distance test, for 2000 M52+keypadss，the highest speed is 200pcs/s and average speed is 100pcs/s.
- Work with EA4000R, the collection of keypads can be achieved within 50 meters in complex environment.
- Real test in Single base station meeting: 50mx50m，2000 M52+ keypads can be collected in approximately 20s.

6、Power

- Using USB connection mode，USB port of computers offer power directly，5V，＜150mA
- Power device is needed for connecting network，15V DC.

7、Capacity and Extension

- Single base station is expected to have high performance dealing within 2000 keypads.
- Supporting as many as 8 equipments used in nearby places at the same time, without mutual influence.

8、Other Features

- Every base station has a unique 4 byte match code, keypads cannot be used before matching with base station.
- Every base station has a unique 4 byte SN number.
- Support software dog function，and 2 EEPROM areas with 16 characters available for customers.

9、Certification and Maintenance

- FCC、CE、ROHS，contact us for details.
- 2 years （limited maintenance parts and labor service），contact us for details