IoT E-ink Display

Featuring LoRaWAN®

DS3604



DS3604 is a reflective electrophoretic display offering readability and flexibility. The 4.2-inch active area contains 400 x 300 pixels and has 1-bit Black/White/Red full display capabilities. DS3604 supports displaying up to 150 languages and other modules like picture or QR code. Long-capacity batteries and ultra-low power consumption bring a long battery life of up to 5 years.

DS3604 enables quickly modifying the displayed content remotely and locally through simple operations and allows remote management in bulk. Moreover, DS3604 can be installed in multiple methods and be compliant with standard LoRaWAN® gateways and networks for more integrated applications.

DS3604 is widely used for hot desk reservations, workplace display signage, etc.

◆ Features

- 4.2-inch three-color e-ink screen
- 400 × 300 pixels display with high contrast and ultra-wide viewing angle
- Enables quickly modifying the displayed content including text, picture and QR code remotely and locally
- Support multiple characters to display up to 150 languages
- Support multicast feature for remote configurations in bulk
- Provide API for management platform integration or development
- Support display template customization
- Ultra-low power consumption with up to 5-year battery life

- Adapting to multiple scenarios with flexible installation methods
- Equipped with NFC for easy configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with Milesight IoT Cloud solution

◆ Specifications

Wireless Transmission	
Technology	LoRaWAN®
Antenna	Internal Antenna
Frequency Band	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	-137dBm
Mode	OTAA/ABP Class A/Class B (Default OTAA Class B)
Display	
E-ink Screen	4.2-inch Black & White & Red E-Ink Screen
Resolution	400 x 300 Pixels
DPI	119
Viewing Angle	180°
Refresh Rate	16s (10 - 40°C)
Display Character	Latin alphabet, English alphabet, Cyrillic alphabet, Greek alphabet, Chinese character, Japanese character, and Hangul
Display Languages	Support Displaying up to 150 Languages Including English, Chinese (Simplified & Traditional) , Spanish, French, Japanese, Portuguese, etc. (Exclude Hebrew, Arabic & Thai)
Others	
Button	1 x Reset Button (Internal) + 1 x Screen Button
Buzzer	1 x Buzzer
Software	
Configuration	NFC via Mobile App or Downlink
Advanced Feature	Multicast
Physical Characteristics	
Power Supply	3 × 590mAh CR2450 Lithium Batteries
Battery Life	Around 5 Years (Class A Mode + 1 Screen Refresh per Day) Around 1.2 Year (Class B Mode + 12 Screen Refreshes per Day)

Operating Temperature	0°C to +40°C (0°F to +104°F)
Operating Humidity	0% to 95% (non-condensing) below 25°C/77°F
Ingress Protection	IP30
Color & Material	White, ABS + PC
Weight	95.2g (Batteries Included)
Dimension	99 × 87 × 10.5 mm (3.90 × 3.43 × 0.41 in)
Installation	Wall Mounting via 3M Tape or Wall Screws
Approvals	
Regulatory	CE, FCC
Environmental	RoHS

[1]The battery life will be shorten if the device works within 0~10°C for a long time.

[2]Contact us to check the languages supported.

[3]Tested under laboratory conditions and for guideline purposes only.

◆ Dimension (mm)



