



DMPQ253AC1

25.3 inch Color E-paper Display

Date: 2023/05/17

Overview

DMPQ253AC 1-inch color E-paper display adopts E Ink's ACeP color E-paper display technology. It is a green environmental protection, low power consumption, and the visual effect is the same as that of paper. It can directly view the content in the sun. The high-tech products with the concept of power saving and environmental protection convey a unique soft and artistic visual experience to people, which is incomparable to ordinary liquid crystal displays. It is very suitable for indoor signage applications such as government bulletin boards, museum display signs, hospital notice boards, etc.

Features

- ◆ Bi-stable display technology, the displayed content can still be maintained without power;
- ◆ Green and environmentally friendly, the screen only consumes power when it is updated;
- ◆ Paper-like and unique aesthetic feeling;
- ◆ Clearly visible in sunlight;
- ◆ Very low power consumption;
- ◆ Network platform management;
- ◆ Super wide viewing angle, comfortable eye protection, no blue light;
- ◆ Support 4G, wired Ethernet, WIFI, Bluetooth and other communication methods;

Application

It is suitable for places where light pollution needs to be reduced, such as bus stops, libraries, museums, hospitals, and places without mains power supply.

Typical Use





25.3 inch Color E-paper Display

Revision History

Revision	Date	Remark
V0.1	2023/05/17	File created

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1. Function Overview

1.1 Features

Bistable Display Technology

- The bistable technology can keep displaying content on the screen when the power supply is completely disconnected;

Green Technology

- Due to the bistable state, the screen only consumes power when it is updated, saving up to 97% more power than traditional LCD displays;
- Reduce printing costs and paper waste

Paper-like

- The same display technology as e-book kindle, similar to paper viewing quality;
- Clear, comfortable, eye protection, no blue light

Excellent Visibility

- Reflective screen, even in strong sunlight outdoors, still clear;
- visual sense of paper;

Ultra-low Power

- Power is only consumed when the screen is updated;
- When the screen is updated, the power consumption of the whole device is $\leq 5W$;

Network platform management

- Real-time status monitoring
- Abnormal information alarm
- Anti-theft security management
- Parameter remote configuration

Indoor Application Design

- Update and manage pictures through WiFi LAN and Bluetooth;
- High-performance industrial-grade 4G wireless communication and standard wired network communication can be used to realize picture update and management of wide area network;
- Unique low power consumption control technology, reducing energy consumption of the whole machine;
- Metal casing, which can be designed for different indoor and outdoor environments. The metal case is safely isolated from the system;
- Wide voltage design, support 9-16V input;
- Built-in lithium battery, completely free from the shackles of the power cord;

Stable & Reliable

- WDT watchdog design to ensure system stability;
- Complete anti-dropping and disconnection reconnection mechanism to ensure that the data terminal is always online;
- The power interface has built-in reverse phase protection and overvoltage protection;
- SIM/UIM card interface built-in 15KV ESD protection;

[Data sheet](#)

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1.2 Appearance



2. Specifications

2.1 Display Specifications

Part No	DMPQ253AC1
Specification	25.3 inch (Single display)
Screen Type	Color
Active Area	560.0 (H)×315.0 (V) mm
Resolution	3200 (H)× 1800 (V) dot
Color Grade	3.2 million colors
Display operating mode	reflection mode
Reflectivity	40%

2.2 System Specifications

CPU	Quad-core ARM Cortex A7 1.1 GHz
Running memory	DDR3 1G
Built-in storage capacity	EMMC 8GB
Onboard backlight	Support 6V power supply, PWM adjustable brightness (optional)
Network	Equipped with Bluetooth + wifi module, supports Wi-Fi 802.11b/g/n protocol. Support Bluetooth 4.0 protocol.
	With 3G data/4G data function, support WCDMA, EVDO, CDMA, GSM frequency band support as follows:
	LTE FDD: B1/B3/B5/B8 LTE TDD: B38/B39/B40/B41 TD-SCDMA: B34/B39 CDMA: BC0 WCDMA: B1/B8 GSM: 900/1800MHz
Image rotation	Support 0 degree, 90 degree, 180 degree, 270 degree manual rotation

Real Time Clock	Built-in real-time clock, support timing switch
Interface settings	Support USB camera, serial port camera
	4 USB HOST, 3 RS232, 1 RS485, 1 UART, 5 AD
	1 front light power supply port, 1 fan power supply port, 1 TCON power supply port, 2 power input ports,
	1 standard SIM card interface, 1 antenna interface
Power supply	DC12V
OS	Google Android 5.1
Language support	CHN/ENG
System Management	File manager Original Android system, open root permissions Timer switch Support OTA remote upgrade

2.3 Physical Specifications

Power supply	12V DC (external)
Overall PoCon	≤5W (12VDo not open the front light)
Physical dimension	588×344×20mm
Installation	Wall-mounted structure
Protection level	non-waterproof structure
Overall wight	2.5Kg
Operation Temp	+15 — +35℃
Storage Temp	-25 — +50℃
Humidity	≤80%, No condensation



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3. Application

Wall-mounted indoor digital signage