A20

Player

Specification V1.1

Overview

A20 is a new LED player designed by Colorlight for the vehicle-mounted screen. It supports the Colorlight cloud platform with 4G, WIFI, wired network and other network connection methods. It can be quickly deployed to achieve intelligent cloud management for multi-screen, multi-service, cross-region unified management.

Thanks to its compact size, safety and reliability, A20 is widely used in vehicle-mounted screen, small advertising screen, etc.

Features

Brand-new breakthroughs

- Maximum loading capacity of 130,000 pixels with maximum 1024 pixels in width or height.
- 8 HUB75 ports.
- 1×USB 2.0 which supports playing programs with U disk .
- 1×external RS485 sensor with RJ11 interface.

Multiple playback methods

- U-disk Plug and play and program playlist update.
- Synchronized playback of multiple screens.
- Scheduled commands.

Windows and sources

- Multi-page playback with up to 12 program pages.
- Rich media sources, such as pictures, videos, texts, clocks, etc., and video and picture scaling.
- Multi-window playback and overlay, whose size and location can be freely adjusted.

All-round control scheme

- Multiple control platforms, LED wizard, mobile phone, tablet APP control.
- Different application software for management, convenient for different applications.

Network communication

- WiFi 2.4G frequency, WiFi hotspot or WiFi client mode[1].
- LAN, supports DHCP mode and static mode and LAN port plug and match[2].
- 4G communication, support 4G network (optional).
- GPS positioning (optional).

Specifications

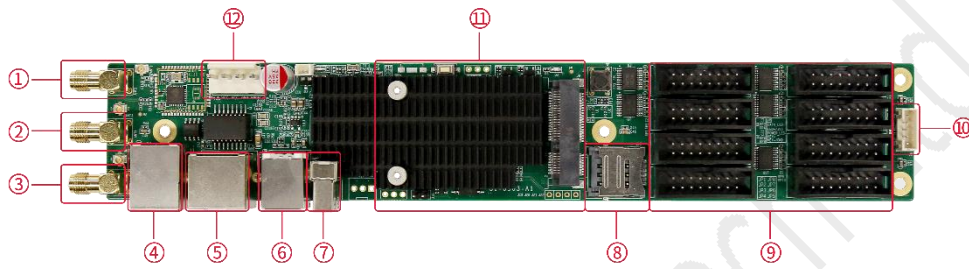| Basic Parameters	
Hardware Quality	HD hard decoding playback, the widest 4096
Memory	8GB (4GB available).
Loading Capacity	Maximum load capacity is 130,000 pixels with maximum 1024 pixels in width or height.
OS	Android
Physical Parameters	
Dimensions (W×H×L)	235.0×40.0×16.5mm
Operating Voltage	DC 5V-12V[3]
Rated Power Consumption	8.5W
Weight	0.1kg
Ambient Temperature	-30℃～70℃
Ambient Humidity	0-95%，non-condensing
Media Format	
Program classification	Support multi-program sequential playback, support program timing setting.
Split Program Window	Support any partition of the program window, support any cascading of windows, and support multi-program page playback
Video Format	HEVC(H.265) , H.264, MPEG-4 Part 2, Motion JPEG
Audio Format	AAC-LC , HE-AAC , HE-AAC v2 , MP3 , Linear PCM
Image Format	Bmp, jpg , png , gif
Text Format	Txt, rtf, word, ppt , excel
Text Display	Support single-line text, multi-line text, support static and dynamic display
Multi-window Display	Up to 2 video windows (2 video windows at most one SD video), multiple graphics, scrolling subtitles, scrolling pictures, LOGO,

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[1] The stability of WiFi hotspot and WiFi client signal communication is related to the transmission distance, wireless network environment and WiFi band.

[2] LAN port plug-and-play function, which needs to be used with the official software PlayerMaster. It works in both DHCP and static mode.

[3] Wider voltage range available from technical support.

	date, time, week, weather forecast. Realize the function of free split screen, display different content in different areas.
Window Overlapping	Arbitrary windows overlay, supports completely transparent, opaque and other effects.
RTC	Real-time clock display and management.
Plug and Play Content from USB Drive	Supported.

Hardware

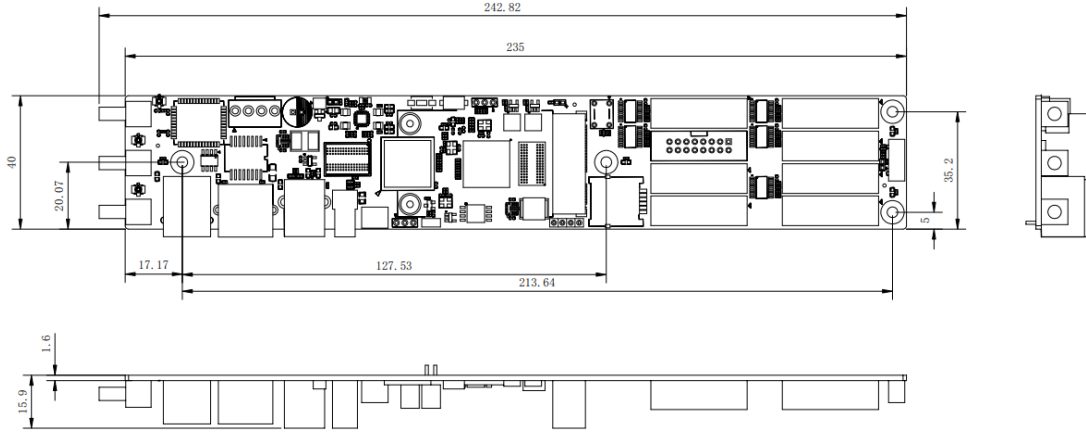| No.	Name	Function
1	WiFi ANT	External WiFi antenna, provide permanent WiFi hotspot, or connect to other WiFi routers.
2	GPS ANT	External GPS antenna (optional).
3	4G ANT	Connect to 4G antenna (optional).
4	SENSOR	RJ11 port, connect to the sensor for automatic brightness adjustment or monitoring ambient light, smoke, temperature, humidity and air quality.
5	LAN	Fast Ethernet port, connect to wired network.
6	CONFIG	USB-B port for controlling devices to set parameters or publish program.
7	USB2.0[4]	U-disk playback.
8	SIM	Micro-SIM card slot (used with 4G module).[5]
9	HUB75 interface	HUB75 data interface, connect the display unit board.
10	External interface	External test button indicator.
11	4G module interface	4G module installation interface, access to 4G network (4G module optional).
12	Power	DC 5-12V.

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[4] Input: 12V 2A, USB 2.0 0utput: 5V 0.5A; Input: 5V 2A, USB 2.0 0utput: 5V 0.2A.

[5] Support optional 4G module with SMD eSIM. Patch eSIM and Micro SIM card can be used at the same time, and only one of them can work.
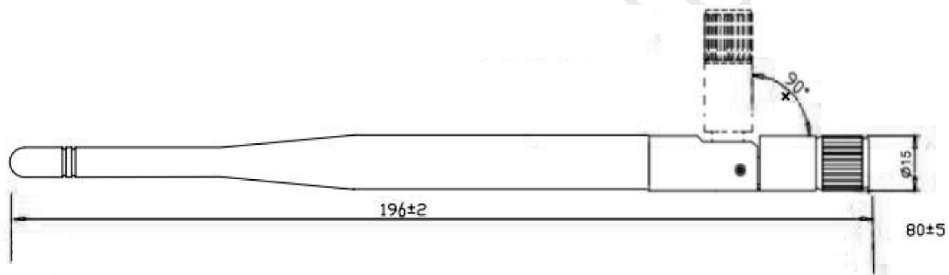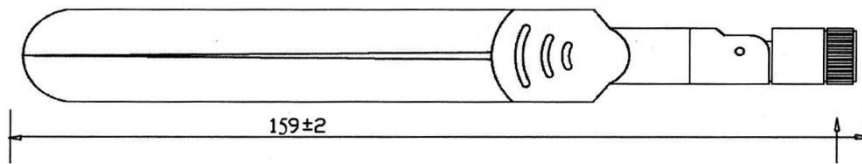
Reference dimensions

Unit: mm

A20 LED player

WiFi antenna

4G antenna（optional）

software kit

Name	Type	Description
PlayerMaster	PC Client	Local and cloud display management, program editing and publishing.
ColorlightCloud	Web	Web-based display information release management system, through logging in a browser to achieve display cluster management, information release and monitoring.
LED Assistant	Mobile Client	Support Android and iOS platform easily realize the wireless control of the player.

Statement

As factors such as product batches and production processes may change, in order to provide accurate product information, specification parameters, and product characteristics in order to match the actual product, the text description and picture effects in the document will be adjusted and revised appropriately. If it is necessary to carry out the above modification and adjustment without prior notice, please refer to the actual product.

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Service Phone
4008 770 775

Colorlight Cloud Tech Ltd.

Official Website: www.colorlightinside.com
Head Office Address:Room 37F-39F,Building 8, Zone A,
Shenzhen International Innovation Valley, Vanke Cloud City, Dashi Yilu,
Nanshan District, Shenzhen, China