



# SBPRO-FHD Multimedia Player

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## Introduction

The SBPRO-FHD is a new generation of multimedia player created by Starview for full-color LED displays. This multimedia player integrates playback and sending capabilities, allowing users to publish content and control LED displays with a computer, mobile phone, or tablet. Working with our superior cloud-based publishing and monitoring platforms, the SBPRO-FHD enables users to manage LED displays from an Internet-connected device anywhere, anytime.

Support for multi-screen synchronous playback and synchronous and asynchronous modes makes this multimedia player a perfect fit for a wide range of applications.

Thanks to its reliability, ease of use, and intelligent control, the SBPRO-FHD becomes a winning choice for commercial LED displays and smart city applications such as fixed displays, lamp-post displays, chain store displays, advertisement players, mirror displays, retail store displays, door head displays, shelf displays, and much more.

## Certifications

NBTC, IMDA, PSB, FAC DoC, ENACOM, ICASA, SRRC, EAC DoC, EAC RoHS, RCM, UL Smark, CQC, FCC, UL, IC, KC, CE, UKCA, CB, MIC, PSE, NOM

**If the product does not have the relevant certifications required by the countries or regions where it is to be sold, please contact Starview to confirm or address the problem. Otherwise, the customer shall be responsible for the legal risks caused or Starview has the right to claim compensation.**

## Features

### Output

- Loading capacity up to 2,300,000 pixels  
Maximum width: 4096 pixels  
Maximum height: 4096 pixels
- 4x Gigabit Ethernet ports  
All these four ports serve as primary by default. Users can also set two as primary and the other two as backup.
- 1x Stereo audio connector  
The audio sample rate of the internal source is fixed at 48 kHz. The audio sample rate of the external source supports 32 kHz, 44.1 kHz, or 48 kHz. If Starview's multifunction card is used for audio output, audio with a sample rate of 48 kHz is required.
- 1x HDMI 1.4 connector  
Maximum output: 1080p@60Hz, support for HDMI loop

### Input

- 1x HDMI 1.4 connector  
In synchronous mode, video sources input from this connector can be scaled to fit the entire screen automatically.
- 2x sensor connectors  
Connect to brightness sensors or temperature and humidity sensors.

### Control

- 1x USB 3.0 (Type A) port  
Allows for USB playback and firmware upgrade over USB.
- 1x USB (Type B) port  
Connects to the control computer for content publishing and screen control.
- 1x Gigabit Ethernet port  
Connects to the control computer, a LAN or public network for content publishing and screen control.

### Performance

- Powerful processing capacity
  - Quad-core ARM A55 processor @1.8 GHz
  - Support for H.264/H.265 4K@60Hz video decoding
  - 1 GB of onboard RAM
  - 32 GB of internal storage
- Flawless playback  
2x 4K, 6x 1080p, 10x 720p, or 20x 360p video playback

### Function

- All-round control plans
  - Enables users to publish content and control screens from a computer, mobile phone, or tablet.

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- Allows users to publish content and control screens from anywhere, anytime.
- Allows users to monitor screens from anywhere, anytime.
- Users can control the brightness, display status, video source switching, etc... of a terminal in real time or as scheduled
- Switching between Wi - Fi AP and Wi - Fi STA
  - In Wi - Fi AP mode, the user terminal connects to the built - in Wi - Fi hotspot of the SBPRO-FHD. The default SSID is "AP+ *Last 8 digits of SN*" and the default password is printed on the SSID label of the product.
  - In Wi - Fi STA mode, the user terminal and the SBPRO-FHD are connected to the Wi - Fi hotspot of a router.
- Synchronous and asynchronous modes
  - In asynchronous mode, the internal video source works.
  - In synchronous mode, the video source input from the HDMI connector works.
- Synchronous playback across multiple screens
  - NTP time synchronization
  - GPS time synchronization (The specified 4G module must be installed.)
  - RF time synchronization (The specified RF module must be installed.)
- Support for 4G modules
 

The SBPRO-FHD ships without a 4G module. Users have to purchase 4G modules separately if needed.

Network connection priority: Wired network > Wi-Fi network > 4G network

When multiple types of networks are available, the SBPRO-FHD will choose a signal automatically according to the priority.

## Appearance

### Front Panel




Name	Description
SWITCH	Switches between synchronous and asynchronous modes <ul style="list-style-type: none"> <li>- Staying on: Synchronous mode</li> <li>- Off: Asynchronous mode</li> </ul>
SIM CARD	SIM card slot Capable of preventing users from inserting a SIM card in the wrong orientation
RESET	Factory reset button Press and hold this button for 5 seconds to reset the product to its factory settings.
USB	USB (Type B) port

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Name	Description
	Connects to the control computer for content publishing and screen control
LED OUT	Gigabit Ethernet outputs

Rear Panel



Name	Description
SENSOR	Sensor connectors Connect to brightness sensors or temperature and humidity sensors.
	RF antenna connector
HDMI	HDMI 1.4 connectors <ul style="list-style-type: none"> <li>- OUT: Output connector, support for HDMI loop</li> <li>- IN: Input connector, HDMI video input in synchronous mode</li> </ul> <p>In synchronous mode, users can enable full-screen scaling to adjust the image to fit the screen automatically. Requirements for full-screen scaling in synchronous mode:</p> <ul style="list-style-type: none"> <li>- 64 pixels ≤ video source width ≤ 2048 pixels</li> <li>- Images can only be scaled down and cannot be scaled up.</li> </ul>
WiFi	Wi-Fi antenna connector Support for switching between Wi-Fi AP and Wi-Fi Sta
ETHERNET	Gigabit Ethernet port Connects to the control computer, a LAN or public network for content publishing and screen control.
COM 2	GPS antenna connector
USB 3.0	USB 3.0 (Type A) port Allows for USB playback and firmware upgrade over USB. The Ext4 and FAT32 file systems are supported. The exFAT and FAT16 file systems are not supported.
COM 1	4G antenna connector

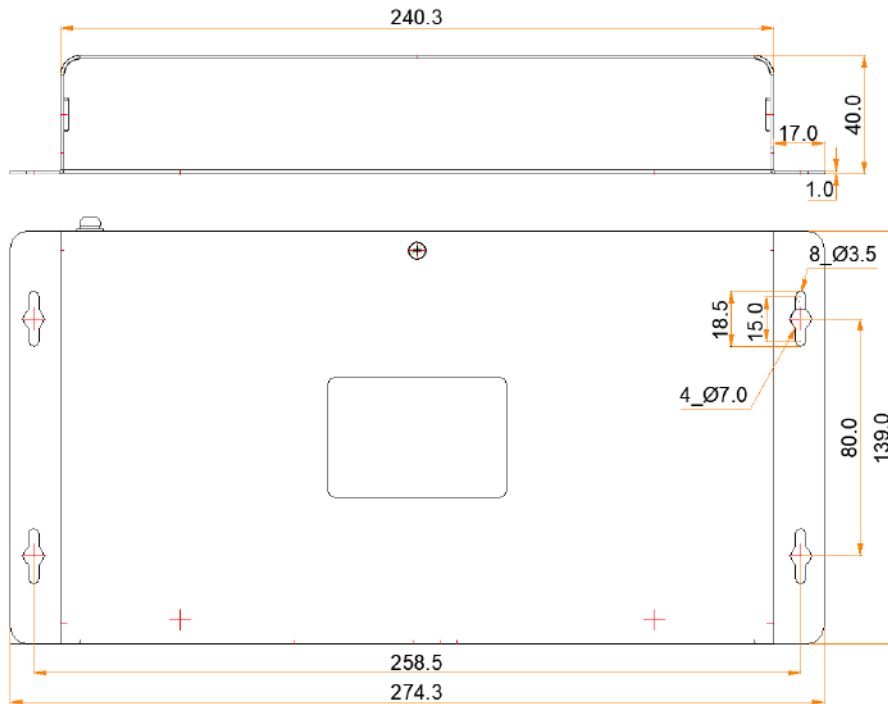
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Name	Description
AUDIO OUT	Audio output connector
100-240V, 50/60Hz, 0.6A	Power input connector
ON/OFF	Power switch

## Indicators

Name	Color	Status	Description
PWR	Red	Staying on	The power supply is working properly.
SYS	Green	Flashing once every 2s	The SBPRO-FHD is functioning normally.
		Staying on/off	The SBPRO-FHD is abnormal.
CLOUD	Green	Staying on	The SBPRO-FHD is connected to the Internet and the connection is available.
		Flashing once every 2s	The SBPRO-FHD is connected to CLOUD and the connection is available.
		Flashing once every second	The SBPRO-FHD is upgrading the operating system.
		Flashing once every 0.5s	The SBPRO-FHD is copying the upgrade package.
RUN	Green	Flashing once every second	The FPGA has no video source.
		Flashing once every 0.5s	The FPGA is functioning normally.
		Staying on/off	The FPGA loading is abnormal.

## Dimensions



Tolerance: ±0.3 Unit: mm

## Specifications

Electrical Parameters	Input power	100-240V, 50/60Hz, 0.6A
	Maximum power consumption	18 W
Storage Capacity	RAM	1 GB
	Internal storage	32 GB
Operating Environment	Temperature	-20°C to +60°C
	Humidity	0% RH to 80% RH, non-condensing
Storage Environment	Temperature	-40°C to +80°C
	Humidity	0% RH to 80% RH, non-condensing
Physical Specifications	Dimensions	274.3 mm × 139.0 mm × 40.0 mm
	Net weight	1230.4 g
	Gross weight	1650.0 g

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		Note: It is the total weight of the product, accessories and packing materials packed according to the packing specifications
Packing Information	Dimensions	385.0 mm × 280.0 mm × 75.0 mm
	Accessories	<ul style="list-style-type: none"> <li>- 1x Wi-Fi omnidirectional antenna</li> <li>- 1x AC power cord</li> <li>- 1x Quick Start Guide</li> <li>- 1x Packing list</li> </ul>
IP Rating	IP20 Please prevent the product from water intrusion and do not wet or wash the product.	
System Software	<ul style="list-style-type: none"> <li>- Android 11.0 operating system software</li> <li>- Android terminal application software</li> <li>- FPGA program</li> </ul> Note: Third-party applications are not supported.	

The amount of power consumption may vary depending on various factors such as product settings, usage, and environment.

## Media Decoding Specifications

### Image

Category	Codec	Supported Image Size	Container	Remarks
JPEG	JFIF file format 1.02	96×32 pixels to 817×8176 pixels	JPG, JPEG	No support for non-interlaced scan Support for SRGB JPEG Support for Adobe RGB JPEG
BMP	BMP	No Restriction	BMP	N/A
GIF	GIF	No Restriction	GIF	N/A
PNG	PNG	No Restriction	PNG	N/A
WEBP	WEBP	No Restriction	WEBP	N/A



## Video

Category	Codec	Resolution	Maximum Frame Rate	Maximum Bit Rate (Ideal Case)	File Format	Remarks
MPEG1/2	MPEG 1/2	48×48 pixels to 1920×1088 pixels	30fps	80Mbps	DAT, MPG, VOB, TS	Support for field coding
MPEG 4	MPEG4	48×48 pixels to 1920×1088 pixels	30fps	38.4Mbps	AVI, MKV, MP4, MOV, 3GP	No support for MS MPEG4 v1/v2/v3, GMC
H.264/AVC	H.264	48×48 pixels to 4096×2304 pixels	2304p@60fps	80Mbps	AVI, MKV, MP4, MOV, 3GP, TS, FLV	Support for field coding and MBAFF
MVC	H.264 MVC	48×48 pixels to 4096×2304 pixels	2304p@60fps	100Mbps	MKV, TS	Support for Stereo High Profile only
H.265/HEVC	H.265/ HEVC	64×64 pixels to 4096×2304 pixels	2304p@60fps	100Mbps	MKV, MP4, MOV, TS	Support for Main Profile, Tile & Slice
GOOGLE VP8	VP8	48×48 pixels to 1920×1088 pixels	30fps	38.4Mbps	WEBM, MKV	N/A
GOOGLE VP9	VP9	64×64 pixels to 4096×2304 pixels	60fps	80Mbps	WEBM, MKV	N/A
H.263	H.263	SQCIF (128×96) QCIF (176×144) CIF (352×288) 4CIF (704×576)	30fps	38.4Mbps	3GP, MOV, MP4	No support for H.263+
VC-1	VC-1	48×48 pixels to 1920×1088 pixels	30fps	45Mbps	WMV, ASF, TS, MKV, AVI	N/A
MOTION JPEG	MJPEG	48×48 pixels to 1920×1088 pixels	60fps	60Mbps	AVI	N/A

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