

Wireless Display Transmitter & Receiver

Model Name:AM18051HDMI Cable



Version 1.0

04/20/2025

Contents

1.0 INTRODUCTION..... 1

1.1 BRIEF..... 1

1.2 PRODUCT FEATURE..... 1

1.3 INSTALLATION..... 2

1.4 MANUALLY PAIR (IF NEEDED)..... 3

2.0 REQUIREMENTS..... 4

2.1 HARDWARE SPECIFICATION..... 4

2.1.1 Main Component 4

2.1.2 Hardware Interface..... 4

2.1.3 LED Indicator for 5

2.1.4 Electrical Characteristic..... 5

2.2 MECHANICAL REQUIREMENTS..... 6

2.2.1 Dimension..... 6

2.2.2 Package Specification..... 7

2.3 ENVIRONMENTAL REQUIREMENTS 8

1.0 Introduction

1.1 Brief

This document provides an overview of the requirements for the AM18051HDMI cable. It is a pair of Full HD wireless display transmitter & receiver. It integrates powerful video encoder/decoder and 5GHz Wi-Fi module with high sensitivity antennas to provide the high-performance screen mirroring function.

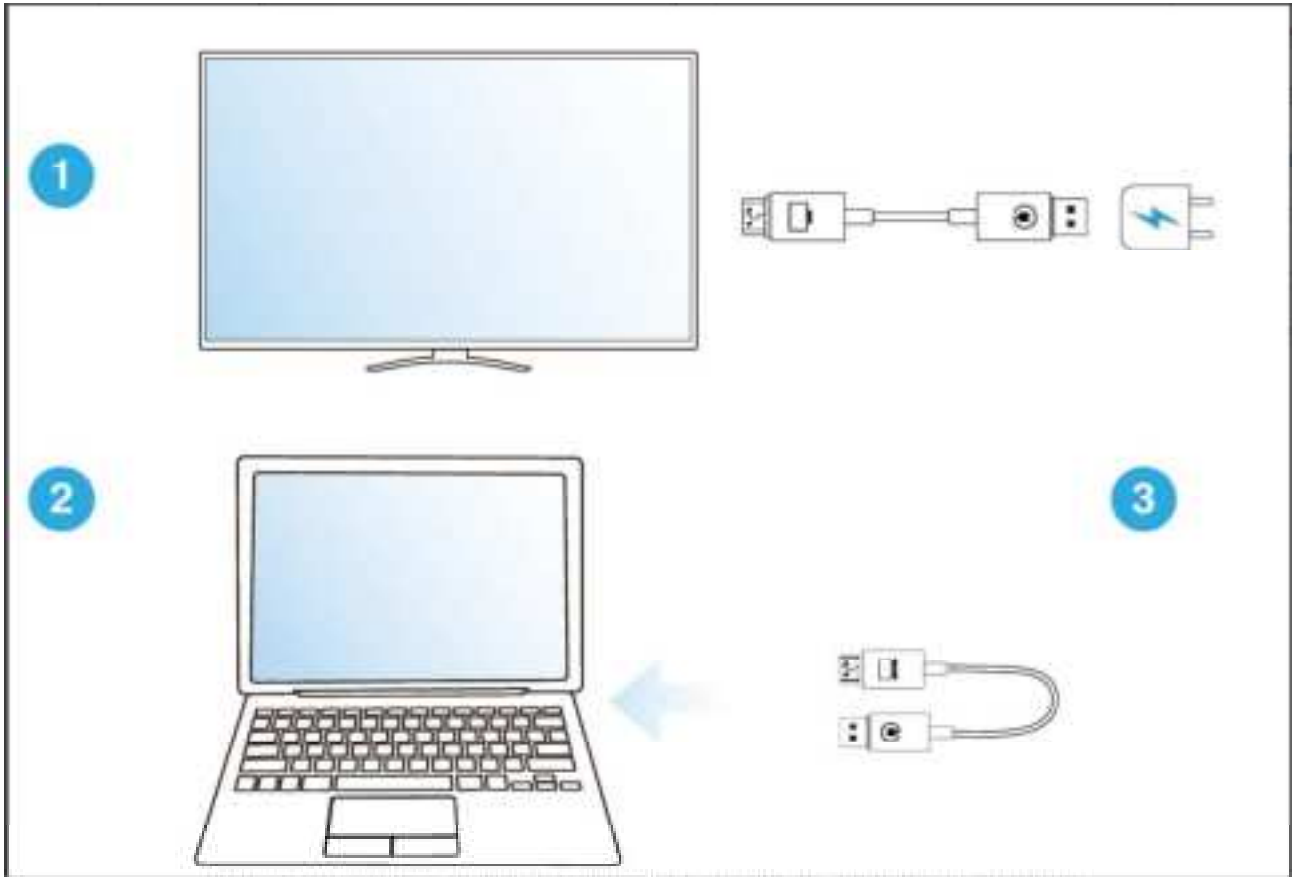
Transmitter	
Main Chip	AM8360D
Model	AM18051HDMI cable Transmitter
Network	IEEE 802.11n 5GHz 1T1R
Interface	USB Type-C DP-ALT
Max. Resolution	1920x1080
Function	Screen Mirror/Extend
Color	White
Power	DC5V/0.5A

Receiver	
Model	AM18051HDMI cable Receiver
Main Chip	AM8268D
Network	IEEE 802.11n 5GHz 1T1R
Interface	HDMI
Max. Resolution	1920x1080
Function	Screen Mirror/Extend
Color	White
Power	DC5V/0.5A

1.2 Product Feature

- **Wi-Fi:**
 - IEEE 802.11n 5GHz 1T1R
- **Full HD Output**
- **Screen Mirror**
- **Screen Extend (Windows/macOS)**
- **Netflix App support (The standalone receiver cannot display DRM streaming)**
- **Proprietary Protocol**
- **Long Distance**
- **Low Power Consumption**
- **Low Latency**
- **CSA (Channel switch announcement) supported, auto channel switch if current channel jamming.**
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1.3 Installation



1. Receiver : Connect Receiver to your TV and power on by an independent 5V/1A adapter.
2. Transmitter : Power and connect the HDMI connector to your Laptop/MacBook/ Smart Phone supporting USB Type-C DP-Alt port. Wait a few seconds until the flashing light of Transmitter stops, then it will start mirroring automatically.
3. Stop/Restart Mirror: Unplug/ Re-plug Transmitter to stop mirroring or restart mirroring.

1.4 Manually Pair (If needed)

1. Turn on pairing mode for the receiver

- (1) Power up the receiver by an external adapter (5V/1A).
- (2) Plug the receiver to the HDMI port on the monitor.
- (3) Press the button through the pin hole on the receiver for 2 seconds.

Release when the screen shows “Release the button to pair with”.



2. Press the button on Transmitter

Plug Transmitter on laptop to provide power. Press the button through the pine hole on Transmitter for 5 seconds to complete pairing while the screen shows “Ready to pair”. After paired, it will start casting automatically.



2.0 Requirements

The following sections is to identify the detailed requirements of the Transmitter and Receiver.

2.1 Hardware Specification

2.1.1 Main Component

Transmitter	Hardware Component	Detailed Description
2.1.1.1	Main Chip	• AM8360D
2.1.1.2	Wi-Fi	• AM9421
Receiver		
2.1.1.4	Main Chip	• AM8268D
2.1.1.5	Wi-Fi	• AM9421

2.1.2 Hardware Interface

Transmitter	Feature	Detailed Description
2.1.2.1	HDMI Interface USB Interface	• HDMI 1.4a with HDCP 1.4 • Only for power input (5V/1A USB adapter)
2.1.2.2	Button (Pin hole)	• Press 5s for paring the Receiver as the display device shows "Ready to pair"
Receiver		
2.1.2.3	HDMI Interface	• HDMI 1.4a with HDCP 1.4
2.1.2.4	USB Interface	• Only for power input (5V/1A USB adapter)
2.1.2.5	Button (Pin hole)	• Press 5s to start the pairing process

2.1.3 LED Indicator for

Transmitter	Status	Detailed Description
LED Light	Solid	<ul style="list-style-type: none">Device is connected to RX successfully and is able to be operated properly.
	Blinking (Slow)	<ul style="list-style-type: none">The device is ready and trying to connect to RX as Receiver is being connected up.
	Blinking (Fast)	<ul style="list-style-type: none">The device is processing to pair with RX.
	Light off	<ul style="list-style-type: none">The device has malfunctioned, OR no power input.
Receiver		
LED Light	Solid	<ul style="list-style-type: none">Device is connected to 5V/1A power successfully.

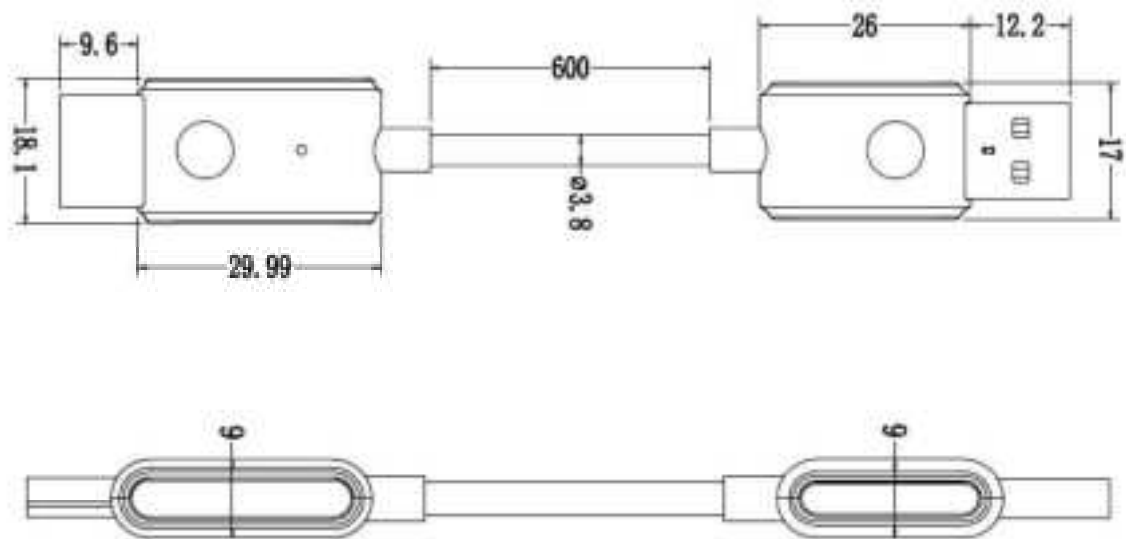
2.1.4 Electrical Characteristic

Transmitter	Feature	Detailed Description
2.1.4.1	Power Input	<ul style="list-style-type: none">5V/0.5A
2.1.4.2	Power Consumption	<ul style="list-style-type: none">2.5 W
Receiver		
2.1.4.3	Power Input	<ul style="list-style-type: none">DC 5V/0.5A
2.1.4.4	Power Consumption	<ul style="list-style-type: none">2.5W

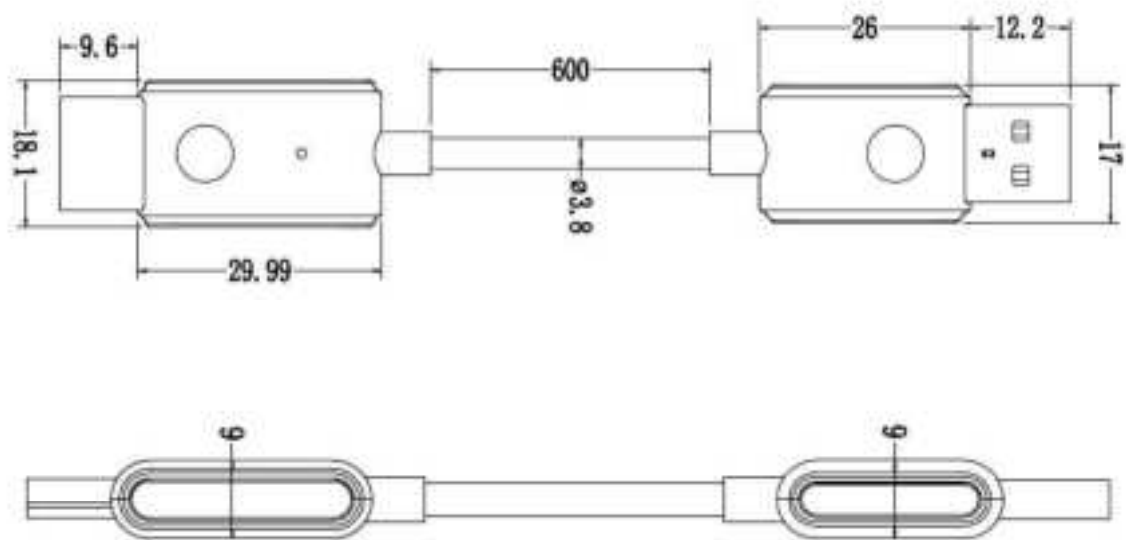
2.2 Mechanical Requirements

2.2.1 Dimension

2.2.1.1 Transmitter



2.2.1.2 Receiver



2.2.2 Package Specification

Transmitter	Feature	Detailed Description
2.2.2.1	Length	• 99mm
2.2.2.2	Width	• 18mm
2.2.2.3	Height	• 6mm
2.2.2.4	Weight	• 13g
Receiver		
2.2.2.5	Length	• 677mm
2.2.2.6	Width	• 17mm
2.2.2.7	Height	• 6mm
2.2.2.8	Weight	• 19g

2.3 Environmental Requirements

	Feature	Detailed Description
2.3.1	Operating Temperature Conditions	<ul style="list-style-type: none">The product is capable of continuous reliable operation when operating in ambient temperature of 0 °C to +35°C.
2.3.2	Non-Operating Temperature Conditions	<ul style="list-style-type: none">Neither subassemblies is damaged nor the operational performance be degraded when restored to the operating temperature after exposing to storage temperature in the range of -20 °C to +70 °C.
2.3.3	Operating Humidity conditions	<ul style="list-style-type: none">The product is capable of continuous reliable operation when subjected to relative humidity in the range of 10% and 90% non-condensing.
2.3.4	Non-Operating Humidity Conditions	<ul style="list-style-type: none">The product is not be damaged nor the performance be degraded after exposure to relative humidity ranging from 5% to 90% non-condensing.