



Designed by you. Built by us™

SoloCAT™ Z54S

HDMI™ over Single Coaxial Extender

User Manual





Safety and Notice

The SoloCAT™ Z54S HDMI™ over Single Coaxial Extender has been tested for conformity to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the SoloCAT™ Z54S should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



Introduction

The SoloCAT™ Z54S HDMI™ over Single Coaxial Extender boosts up your HDMI™ transmission range up to 60m (180ft) in HDTV 1080p format through single coaxial cable. SoloCAT™ Z54S is easy to install and works perfectly with Belden 1694A coaxial cables. Other coaxial cables can also work with SoloCAT™ Z54S and the transmission distance depends upon the quality and bandwidth of coaxial cables.

The SoloCAT™ Z54S includes two units: transmitting (SoloCAT™ Z54S [TX]) and receiving (SoloCAT™ Z54S [RX]) units. The transmitting unit is used to capture the HDMI™ and HDCP™ input signals and carry the signals through only coaxial cable. The receiving unit is responsible for auto equalizing the transmitted HDMI™ multimedia data. The transmission range between the sending and receiving units can be up to 60m (180ft) under Full HD (1080p) with 7.1 channel audio.

Features

- HDMI™ 1.2a compliant
- HDCP™ compliant
- Single coaxial cable
- 7.1-channel audio supported
- Extends the transmission range up to 60m (180ft) from the HDMI™ sources under Full HD resolution (1080p60 24-bit color depth) through Belden 1694A coaxial cable.
- Video resolutions support 480i, 576i, 720p, 1080i, and 1080p

Specifications & Package Contents

Transmitter: SoloCAT™ Z54S[TX]

HDMI™ input view



2-pin DIP Switch: Please see below table for detail information

HDMI™ IN: Connect to a HDMI™ source device with a HDM™I male-male cable here

+5V DC: Connect to a 5V DC power supply unit

LED: Green light means video in Full-HD mode. Orange light means video in SD or HD mode.



DIP Switch

Pin No.	1	2
OFF (↑)	Default EDID (1080p)	7.1ch PCM audio
ON (↓)	Default EDID (720p / 1080i)	stereo PCM audio

1. Factory default: OFF-OFF [↑-↑]

Panel Descriptions

Transmitter: SoloCAT™ coax output view



Receiver: SoloCAT™ Z54S[RX]

Coax input view



HDMI™ output view



HDMI OUT: Connect to a HDMI™ display with a HDMI™ male-male cable here

+5V DC: Connect to a 5V DC power supply unit

LED: Orange light means in normal operation mode.

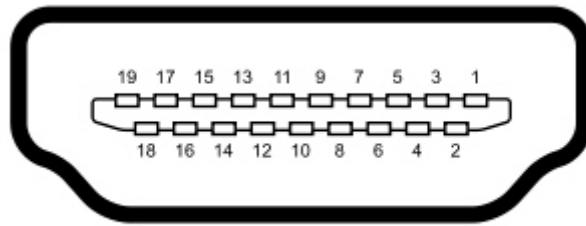


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1. **Factory default: OFF-OFF [↑-↑]**

HDMI™ Pin Definition



Type A (Receptacle) HDMI

Pin 1	TMDS Data2+	Pin 8	TMDS Data0 Shield	Pin 15	SCL
Pin 2	TMDS Data2 Shield	Pin 9	TMDS Data0-	Pin 16	SDA
Pin 3	TMDS Data2-	Pin 10	TMDS Clock+	Pin 17	DDC/CEC Ground
Pin 4	TMDS Data1+	Pin 11	TMDS Clock Shield	Pin 18	+5 V Power
Pin 5	TMDS Data1 Shield	Pin 12	TMDS Clock-	Pin 19	Hot Plug Detect
Pin 6	TMDS Data1-	Pin 13	CEC		
Pin 7	TMDS Data0+	Pin 14	Reserved (N.C. on device)		

Notice

1. All HDMI™ products, including the SoloCAT™ Z54S can be sensitive to the HDMI™ source's input jitters; the input HDMI™ signals with larger jitters will shorten the transmission distance significantly, especially for full HD 1080p@60.
2. The lab testing result shows that Belden 1694A coaxial cables can transmit HDM™ 1.2a signals up to 60m (180ft).
3. If your HDMI™ display has multiple HDMI™ inputs, it is found that the first HDMI™ input [HDMI™ input #1] generally can produce better transmission performance among all HDMI™ inputs.

Limited Warranty

Zektor Incorporated warrants the **SoloCAT™ Z54S HDMI™ over Single Coaxial Extender** to be free from defects in the material and workmanship for 1 year from the date of purchase from authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The Zektor Incorporated, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the Zektor Incorporated for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

The content of this manual has been carefully checked and is believed to be accurate. However, Zektor Incorporated assumes no responsibility for any inaccuracies that may be contained in this manual. Zektor Incorporated will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the **SoloCAT™ Z54S** features and specifications is subject to change without further notice.

