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Smartavi DFX-XT-TX 4K HDMI With Audio and Usb 2.0 Kvm Extender User Manual

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Contents

Smartavi DFX-XT-TX 4K HDMI With Audio and Usb 2.0 Kvm Extender

Product Information

Product Name	DFX-XT
Description	4K HDMI with Audio and USB 2.0 KVM Extender
Designed and Manufactured in	USA
Contact Number	1-888-994-7427
Website	**www.smartavi.com**

Technical Specifications

VIDEO	
Format	HDMI2.0
Video Resolution	High definition 3840 x 2160
Video Bandwidth	Single-link 340 MHz (10.2 Gbps)
Input Interface	(1) HDMI 19-pin (female)
Output Interface	(1) HDMI 19-pin (female)
Max Output Distance	Up to 20 ft
Equalization	Automatic
Input TMDS Signal	1.2 Volts [peak-to-peak]
Input DDC Signal	5 Volts [peak-to-peak, TTL]
Data Rate	1.65 Gbps per color
AUDIO	
HDMI format	Stereo
Input Interface	(1) 3.5mm L/R jacket (female)
Output Interface	(1) 3.5mm L/R jacket (female)
USB	

Input Interface (TX)	(1) USB Type B
Output Interface (RX)	(2) USB 1.1 Type A for KM Devices; (2) USB 2.0 Type A
Keyboard and mouse	Transparent Keyboard and mouse emulation
SYSTEM	
Interface & Type	Cable Requirements
Maximum Length	Single mode: 10 km (6.2 miles), Multi mode: 500 m (1640 feet)
OTHER	
Power	5V DC, 3A power adapter with center-pin positive polarity.
Dimensions	N/A
Weight	N/A
Approvals	N/A
Operating Temperature	N/A
Operating Humidity	N/A
Storage Temperature	N/A
Storage Humidity	N/A
Compliance	EMC Environmental Compliance
Support	N/A
Warranty	N/A

Product Usage Instructions

1. Ensure that power is turned off or disconnected from the units and the computers.
2. Use a fiber optic cable to connect between the RS232 ports of the DFX-XT-TX and the DFX-XT-RX.
3. Use an HDMI cable to connect the HDMI output port from each computer to the corresponding HDMI Input port of the DFX-XT-TX.
4. Use a USB cable (Type-A to Type-A) to connect a USB port on each computer to the respective USB port of the DFX-XT-TX.
5. Optionally, connect a stereo audio cable (3.5mm to 3.5mm) to connect the audio output of the computers to the Audio Input port of the DFX-XT-TX.
6. Connect a monitor to the HDMI Out console port of the DFX-XT-RX using a HDMI cable.
7. Connect a USB keyboard and mouse and the USB devices in the four USB ports of the DFX-XT-RX.
8. Optionally, connect stereo speakers to the Audio Out port of the DFX-XT-RX.
9. Finally, power on the KVM by connecting a 5VDC power supply to the power connector, and then turn on all the computers.

Technical Specifications

VIDEO	
Format	HDMI2.0
Video Resolution	Resolution: high definition 3840 x 2160 Color Depth: 24-bit color depth Latency: less than 1 ms
Video Bandwidth	Single-link 340 MHz (10.2 Gbps)
Input Interface	(1) HDMI 19-pin (female)
Output Interface	(1) HDMI 19-pin (female)
Max Output Distance	Up to 20 ft
Equalization	Automatic
Input TMDS Signal	1.2 Volts [peak-to-peak]
Input DDC Signal	5 Volts [peak-to-peak, TTL]
Data Rate	1.65 Gbps per color
AUDIO	
HDMI format	Stereo
Input Interface	(1) 3.5mm L/R jacket (female)
Output Interface	(1) 3.5mm L/R jacket (female)
USB	
Input Interface (TX)	(1) USB Type B
Output Interface (RX)	(2) USB 1.1 Type A for KM Devices; (2) USB 2.0 Type A Transparent
Keyboard and mouse	Keyboard and mouse emulation
SYSTEM	
Interface & Type	Single-Mode Fiber
Cable Requirements	Dual Fiber
Maximum Length	Single mode: 10 km (6.2 miles) Multi mode: 500 m (1640 feet)
OTHER	
Power	100-240 VAC/ 5VDC @ 3A/15W
Dimensions	7.8" W x 1.15" H x 3.65" D
Weight	1 lb (.5 lbs per unit)
Approvals	UL, CE, ROHS Compliant

Operating Temperature	+32 to +104°F (0 to +40°C)
Operating Humidity	20% to 80% (noncondensing)
Storage Temperature	-4 to 140°F (-20 to +60°C)
Storage Humidity	Up to 95% (No Condensation)
Compliance EMC	FCC (Class A), CE (Class A), ICES-003
Environmental Compliance	RoHS2 (CE)
Support Warranty	1-year

What's in the box

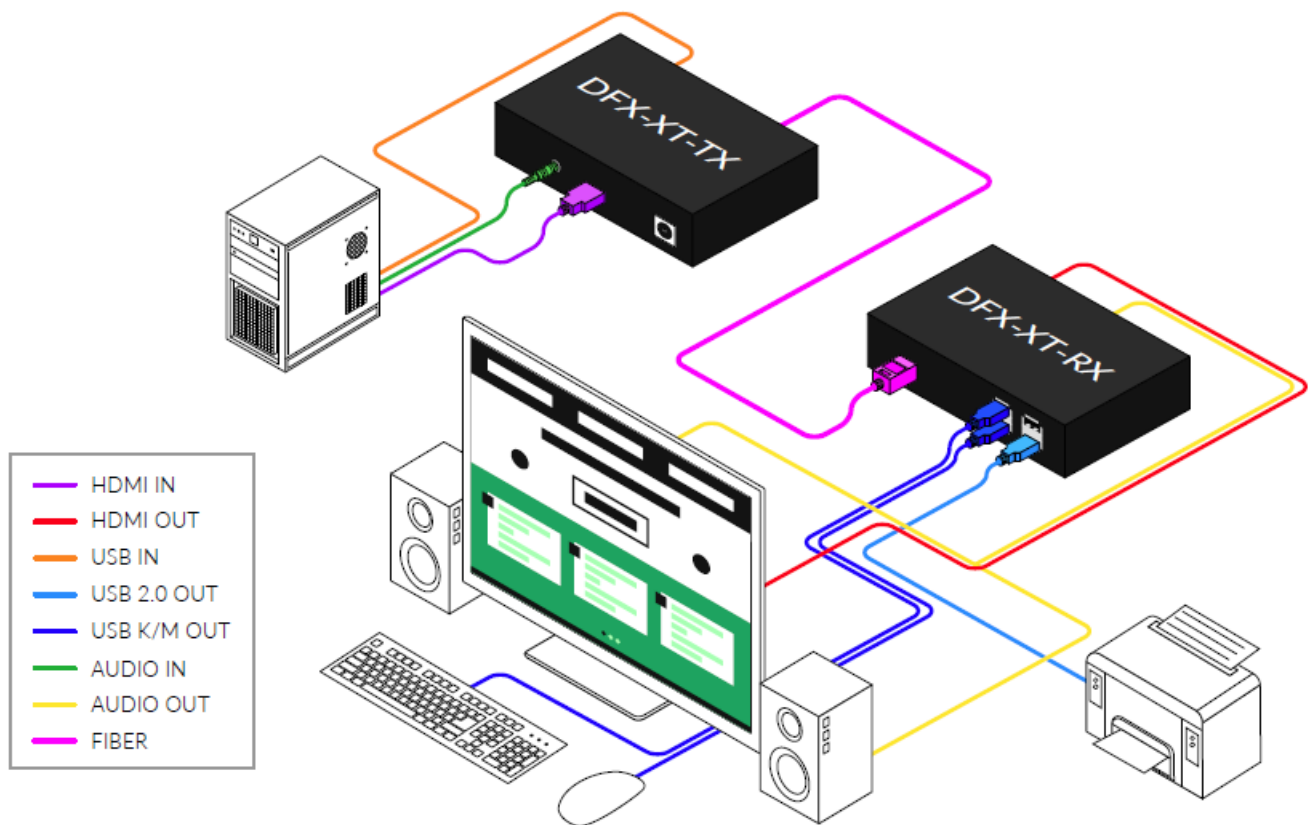| Product Name	Q-ty	Description
DFX-XT-TX	1	4K HDMI with Audio and USB 2.0 KVM Transmitter
DFX-XT-RX	1	4K HDMI with Audio and USB 2.0 KVM Receiver
5VDC3A	2	5V DC, 3A power adapter with center-pin positive polarity.
User manual	1	

Front and back

DFX-XT-TX (Front)

DFX-XT-TX (Back)

DFX-XT-RX (Front)

DFX-XT-RX (Back)

Installation

Refer to the following steps and diagram to set up your KVM extender installation.

Legend:
- HDMI IN
- HDMI OUT
- USB IN
- USB 2.0 OUT
- USB K/M OUT
- AUDIO IN
- AUDIO OUT
- FIBER

1. Ensure that power is turned off or disconnected from the units and the computers.
2. Use an fiber optic cable to connect between the RS232 ports of the DFX-XT-TX and the DFX-XT-RX.
3. Use a HDMI cable to connect the HDMI output port from each computer to the corresponding HDMI Input port of the DFX-XT-TX.
4. Use a USB cable (Type-A to Type-A) to connect a USB port on each computer to the respective USB port of the DFX-XT-TX.
5. Optionally connect a stereo audio cable (3.5mm to 3.5mm) to connect the audio output of the computers to the Audio Input port of the DFX-XT-TX.
6. Connect a monitor to the HDMI Out console port of the DFX-XT-RX using a HDMI cable.
7. Connect a USB keyboard and mouse and the USB devices in the four USB ports of the DFX-XT-RX.
8. Optionally connect stereo speakers to the Audio Out port of the DFX-XT-RX.
9. Finally, power on the KVM by connecting a 5VDC power supply to the power connector, and then turn on all the computers.

Troubleshooting

No Power

- Make sure that the power adapter is securely connected to the power connector of the unit.
- Check the output voltage of the power supply and make sure that the voltage value is around 5VDC.
- Replace the power supply.

No Video

- Check if all the video cables are connected properly.

- Connect the computer directly to the monitor to verify that your monitor and computer are functioning properly.
- Restart the computers.

Keyboard is not working

- Check if the keyboard is properly connected to the unit.
- Check if the USB cables connecting the unit and the computers are properly connected.
- Try connecting the USB on the computer to a different port.
- Make sure that the keyboard works when directly connected to the computer.
- Replace the keyboard.

Mouse is not working

- Check if the mouse is properly connected to the unit.
- Try connecting the USB on the computer to a different port.
- Make sure that the mouse works when directly connected to the computer.
- Replace the mouse.

No Audio

- Check if all the audio cables are connected properly.
- Connect the speakers directly to the computer to verify that the speakers and the computer audio are functioning properly.
- Check the audio settings of the computer and verify that the audio output is through the speakers.

Technical support

For product inquiries, warranty questions, or technical questions, please contact **info@smartavi.com**.

Limited warranty statement

Extent of limited warranty
SmartAVI, Inc. warrants to the end-user customers that the SmartAVI product specified above will be free from defects in materials and workmanship for the duration of 1 year, which duration begins on the date of purchase by the customer. Customer is responsible for maintaining proof of date of purchase.

SmartAVI limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:

- Improper or inadequate maintenance or modifications
- Operations outside product specifications
- Mechanical abuse and exposure to severe conditions

If SmartAVI receives, during applicable warranty period, a notice of defect, SmartAVI will at its discretion replace or repair defective product. If SmartAVI is unable to replace or repair defective product covered by the SmartAVI warranty within reasonable period of time, SmartAVI shall refund the cost of the product. SmartAVI shall have no obligation to repair, replace or refund unit until customer returns defective product to SmartAVI. Any replacement

product could be new or like new, provided that it has functionality at least equal to that of the product being replaced. SmartAVI limited warranty is valid in any country where the covered product is distributed by SmartAVI.

Limitations of warranty

To the extant allowed by local law, neither SmartAVI nor its third party suppliers make any other warranty or condition of any kind whether expressed or implied with respect to the SmartAVI product, and specifically disclaim implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose.

Limitations of liability

To the extent allowed by local law the remedies provided in this warranty statement are the customers sole and exclusive remedies. To the extant allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event will SmartAVI or its third party suppliers be liable for direct, indirect, special, incidental, or consequential damages whether based on contract, tort or any other legal theory and whether advised of the possibility of such damages.

Local law

To the extent that this warranty statement is inconsistent with local law, this warranty statement shall be considered modified to be consistent with such law.

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Documents / Resources

Smartavi DFX-XT-TX 4K HDMI With Audio and Usb 2.0 Kvm Extender [pdf] User Manual
DFX-XT-TX 4K HDMI With Audio and Usb 2.0 Kvm Extender, DFX-XT-TX, 4K HDMI With Audio and Usb 2.0 Kvm Extender, Usb 2.0 Kvm Extender, Kvm Extender, Extender

References

- AM **Home - SmartAVI**