



HDMI Extender Via Single SC Multimode Fiber SC Connector

Extends HDMI 4K2K@60Hz Link Up To 300 Meters

Description

APAC's **AH-UD-300-1SC** optical extender provides a high quality and uncompressed **HDMI** data link between source and sink devices. Go though the optical fiber technologies, this extender can enable transmission of **4K2k@60Hz** video/Audio signals up to **300m in 1SC Multimode fibers (OM3)**. Where radio frequency interference phenomenon is literally ruled out, which shows the advantage of high performance and good signal quality as well as low cost.



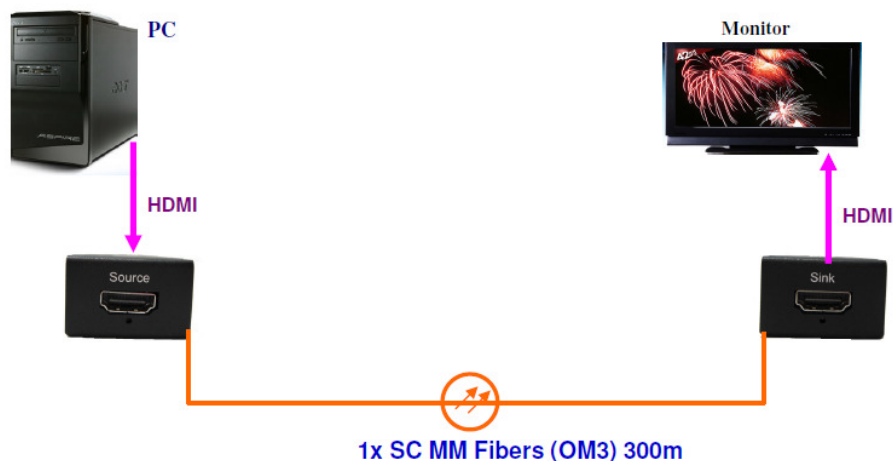
Features

- Extend the distances up to 300m with a high resolution 3840*2160@60Hz.
- HDCP fully compliant without copper wire.
- Data transmission fully compliant without copper wire
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1

Application

- Remote monitor for medical, industrial, military control
- Far-end LCD, Projector, Plasma display connection
- Large video wall system

Application Note





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Ordering information

Part Number

AH-UD-300-1SC-XX

00: US Plug for AC adaptor

01: EU Plug for AC adaptor

02: BS Plug for AC adaptor

03: AU Plug for AC adaptor

This product does not include optical fibers

Package include

- TX box × 1
- RX box × 1
- 5V adaptor × 2

Optional : US/EU/BS/AU Plug change kit of 5V adaptor

Specification

PARAMETER	SPECIFICATION	NOTE
Max length	300 Meters	200 Meters for OM2
Max resolution	3840x2160@60Hz	
Max video bandwidth	6 Gbps per channel	
HDCP compliant	YES	
Optical connector	1SC	
Recommended Fiber	50/125 μ m multimode fiber	OM3
Optical property	778/ 801/ 824/ 850/ 911/ 980nm	
Optical Link Power Budget	3dB (Max)	
Operating voltage	DC 5V	
Electrical Power consumption	TX: 5V/430mA RX: 5V/455mA	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-20°C to 75°C	
Dimension	75.7 × 34 × 22	L × W × H (mm)
Weight	105g	TX unit or RX unit



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Requirements

- HDMI Source (PC/NB/MAC graphic card HDMI output)
- HDMI Sink (HDMI monitor or projector)
- 100~240VAC 50~60Hz 0.6A electricity

Adaptor Specification

PARAMETER	SPECIFICATION	NOTE
Input	100~240VAC	US/EU/BS/AU Plug is optional
Output	DC 5V	3.0 A
DC Jack	Inside 5V / Outside ground	

HDCP compliant

HDCP (High-bandwidth Digital Content Protection) is one kind of copy protection by digital signal handshake. It is required for HDMI device. The Extender plays the role of a cable to communicate all of HDMI functions, such as all TMDS, DDC, CEC and HPD signal.

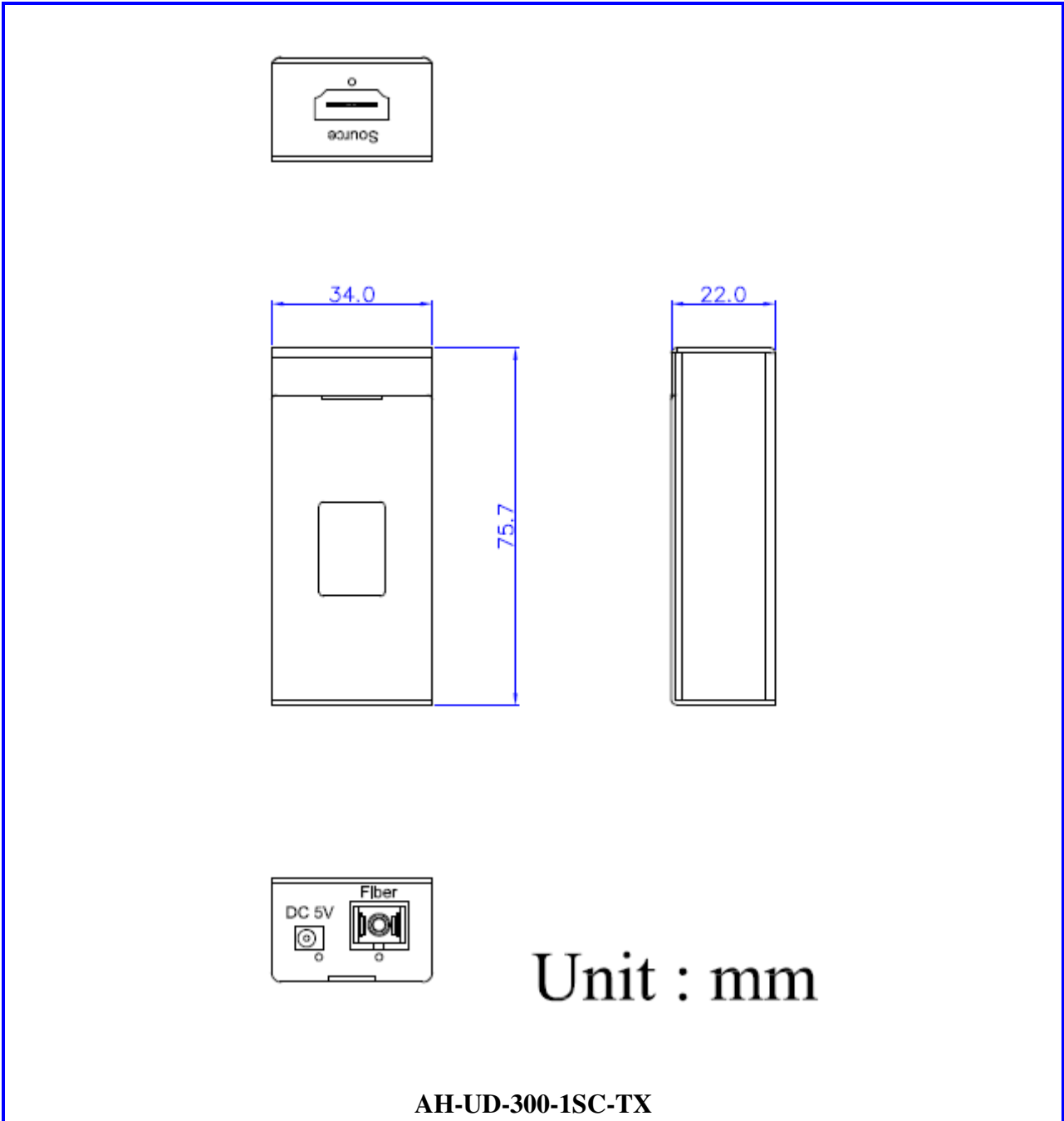
Installation

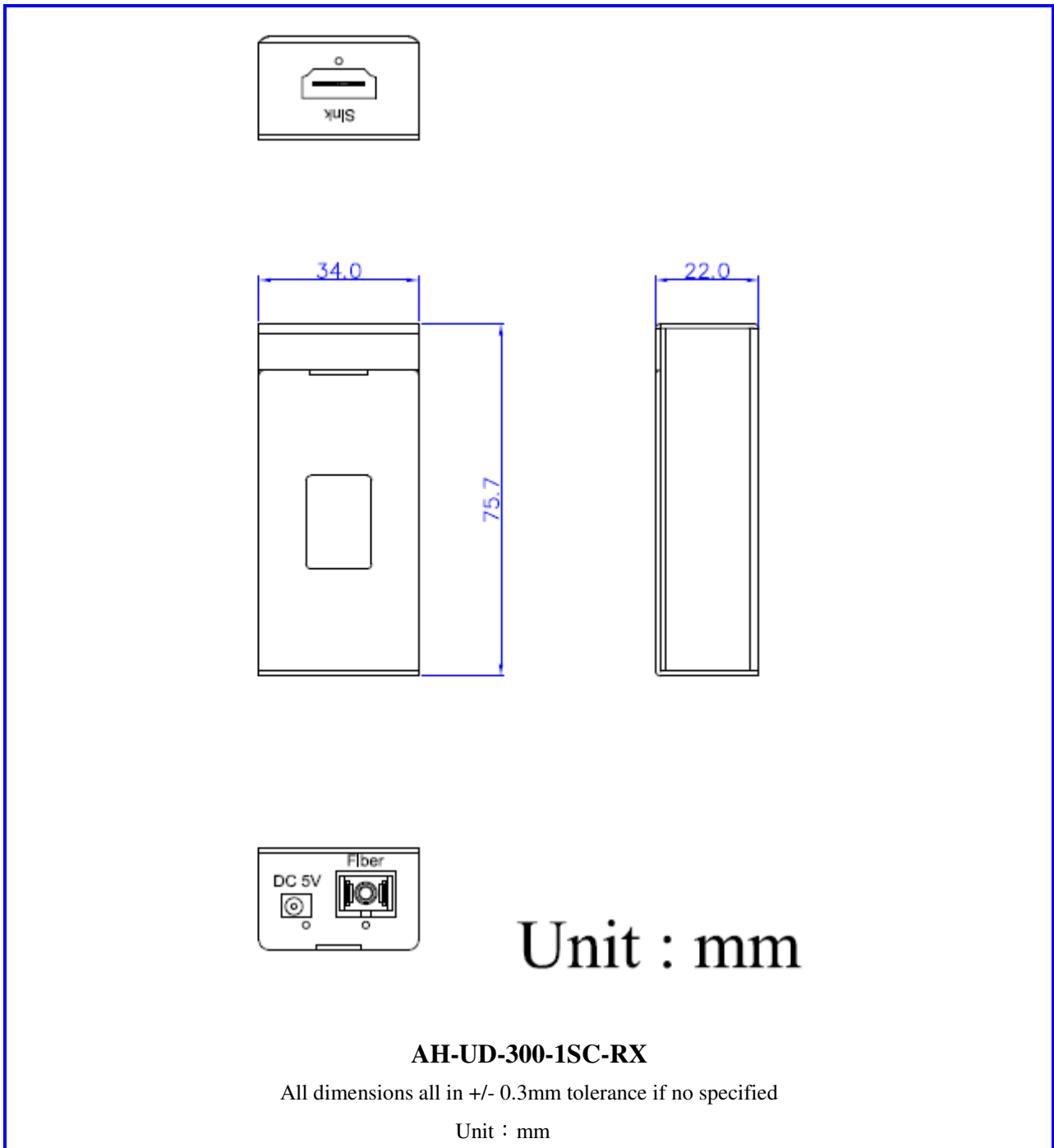
- Step1. Install TX box close to HDMI signal source, such as PC or NB.
- Step2. Install RX box close to HDMI sink, such as HDMI monitor or projectors.
- Step3. Connect TX box and RX box through optical fiber cable (1SC).
- Step4. Apply 5V adaptor power to TX box and RX box.
- Step5. Connect HDMI cable from TX box to Source.
- Step6. Connect HDMI cable from RX box to Sink.

Note 1: Clean fiber connector before plugging in. The dust will impact fiber communication performance.

Note 2: The length of HDMI cable should be NOT longer than 2 meters.

Dimensions





Safety Regulation

CE and FCC approved.

