



DisplayPort Repeater

Extends DisplayPort 4K2K@60Hz Link Up To 17.5 Meters

Description

DisplayPort combines the audio and video through an interface. It supports high resolution displays and multiple displays with a single cable, and increases the efficiency and bandwidth of the display. Low-cost, high performance and easy-to-use make the displayPort become a popular application.

APAC ADP-UD-RPT1 enables DisplayPort data transmission up to 17.5 meters at 4K2k/60Hz, which shows the advantage of high performance and good signal quality as well as low cost.



Features

- Extend the distance up to 17.5 meters (10+7.5) with a high resolution 3840*2160 DisplayPort data.
- Comply with DisplayPort v1.2 standard for DPCP (DisplayPort Content Protection).

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

ADP-UD-RPT1-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

Package include

- ADP-UD-RPT1 × 1
- 5V adaptor × 1

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

Specification

PARAMETER	SPECIFICATION	NOTE
Max length	17.5M	
Max resolution	3840x2160	60Hz
Max video bandwidth	5.4 Gbps per channel	
HDCP compliant	YES	
Operating voltage	DC 5V	
Electrical Power consumption	5V/ 211mA	
Operating Temperature	-10°C to 50°C	
Storage Temperatute	-20°C to 75°C	
Dimension	32.4 × 47.6 × 22	L × W × H (mm)
Weight	58 g	

Requirements

- DisplayPort Source (PC/NB/MAC graphic card DP output)
- DisplayPort Sink (DP monitor or projector)
- 100~240VAC 50~60Hz 0.2A electricity



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Adaptor Specification

PARAMETER	SPECIFICATION	NOTE
Input	100~240VAC	US/EU/BS/AU Plug is optional
Output	DC 5V	2.0 A
DC Jack	Inside 5V / Outside ground	





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Installation

Step1. Connect DisplayPort 10m cable from DisplayPort Repeater IN to PC.

Step2. Plug the 5V power supply into the DisplayPort Repeater.

Step3. Connect DisplayPort 7.5m cable from DisplayPort Repeater OUT to Monitor.

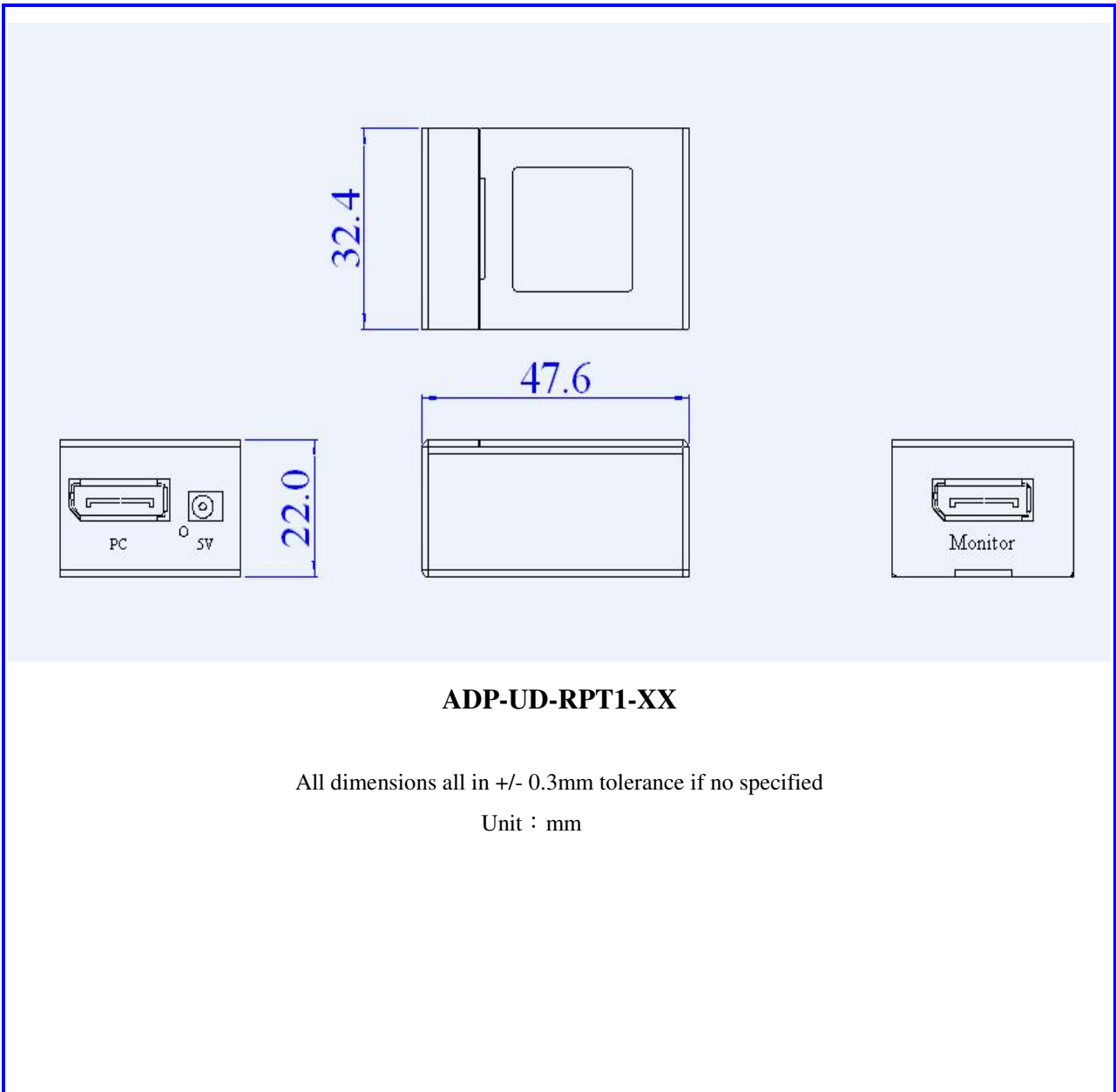
Test Equipment

PARAMETER	SPECIFICATION	NOTE
PC	Win7- 64bit	
Monitor	ACER S277HK	
Graphics card	NVIDIA GTX760 (ASUS)	
	NVIDIA GTX980 (ASUS)	
DP Cable	10 M (LINDY 24 AWG)	
	7.5M (LINDY 24 AWG)	
	1.8M (DP Standard 30 AWG)	
DPI.2 RPT	ADP-UD-RPT1	

Test Report

ADP-UD-RPT1 Product Test		RPT-A	RPT-B	RPT-C	RPT-D	RPT-E
GTX980-Port1	10M+7.5M	OK	OK	OK	OK	OK
	10M+1.8M	OK	OK	OK	OK	OK
GTX980-Port2	10M+7.5M	OK	OK	OK	OK	OK
	10M+1.8M	OK	OK	OK	OK	OK
GTX980-Port3	10M+7.5M	OK	OK	OK	OK	OK
	10M+1.8M	OK	OK	OK	OK	OK
GTX760	10M+7.5M	OK	OK	OK	OK	OK
	10M+1.8M	OK	OK	OK	OK	OK
ADP-UD-RPT1 Product Test		RPT-A	RPT-B	RPT-C	RPT-D	RPT-E
GTX980-Port1	7.5M+7.5M	OK	OK	OK	OK	OK
	7.5M+1.8M	OK	OK	OK	OK	OK
GTX980-Port2	7.5M+7.5M	OK	OK	OK	OK	OK
	7.5M+1.8M	OK	OK	OK	OK	OK
GTX980-Port3	7.5M+7.5M	OK	OK	OK	OK	OK
	7.5M+1.8M	OK	OK	OK	OK	OK
GTX760	7.5M+7.5M	OK	OK	OK	OK	OK
	7.5M+1.8M	OK	OK	OK	OK	OK

Dimensions



Safety Regulation

CE and FCC approved.

