

**DisplayPort receiver Module**

<b>Manufacturer:</b>	<u>STMicroelectronics, Inc</u>
<b>Package/Case:</b>	BGA
<b>Product Type:</b>	Discrete Semiconductor Modules
<b>Lifecycle:</b>	Unconfirmed



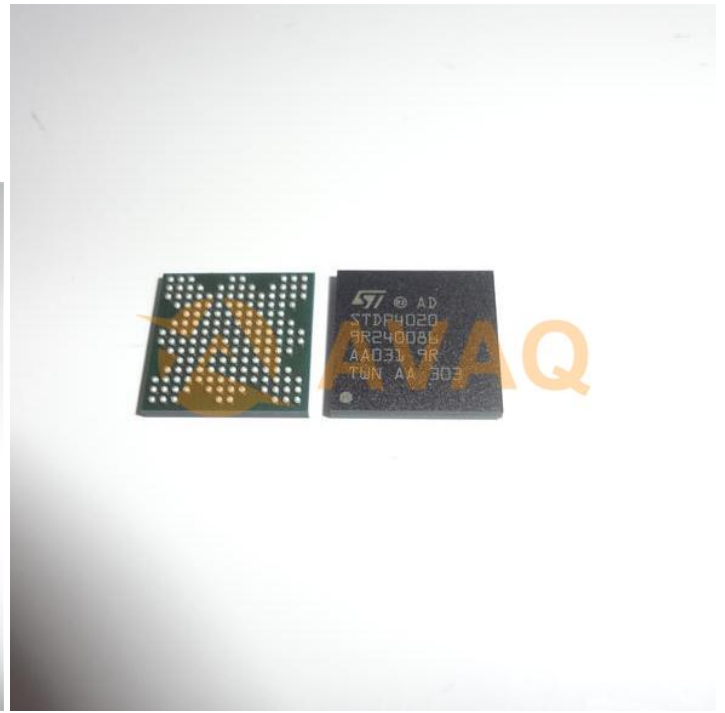
Images are for reference only

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**General Description**

## Key Features

- Enhanced DisplayPort® (DP) receiver
  - DP 1.1a compliant
  - Embedded DisplayPort (eDP) compliant
  - 1, 2, or 4 lanes
- Higher bandwidth “Turbo mode” (3.24 Gbps per lane), supports:
  - 1920 x 1080 (FHD) 120 Hz/10-bit color video standard timings and 7.1 Ch audio
  - 2560 x 1600 (WQXGA), 2560 x 2048 (QSXGA) 60 Hz/10-bit color graphics and 7.1 Ch audio
- Interface compatibility with wide range of display controller ICs
  - LVTTTL (60 wide) and LVDS (quad bus) video interface
  - 8-Ch I2S and SPDIF audio interface
- Robust AUX channel
  - Link service, maintenance
  - I2C-over-AUX (MCCS, DDC)
  - IR, full duplex UART protocol
- Configurable through I2C host interface
- Supports HDCP 1.3 with on-chip keys
- HDCP repeater capability
  - Acts as upstream receiver
- AUX to I2C bridge for EDID, MCCS pass through
- Spread spectrum on DisplayPort, LVDS, and TTL interfaces for EMI reduction
- Supports deep color and color format conversion
  - RGB/YUV (4:4:4) – 10-bit color
  - YUV (4:2:2/4:2:0) – 12-bit color
  - RGB (4:4:4) to YUV (4:4:4) conversion and vice-versa
- Supports HBR/“Turbo” speed over HBR/RBR rated long cables (15 m and more)
- Package
  - 164 LFBGA (12 x 12 mm / 0.8 mm)
- Power supply voltages
  - 3.3 V I/O; 1.2 V core



## Recommended For You

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### **ST33ZP24AR28PVSP**

STMicroelectronics, Inc  
TSSOP28

### **STA5631C**

STMicroelectronics, Inc  
QFN

### **STA5631CTR**

STMicroelectronics, Inc  
QFN

### **STGF6NC60HD(040Y)**

STMicroelectronics, Inc  
BGA

### **Z8420B1**

STMicroelectronics, Inc  
DIP40

### **GM68020H-BE**

STMicroelectronics, Inc  
QFP

### **M42Z35AY-10MH1F**

STMicroelectronics, Inc  
64-LFQFP10x10

### **TS68HC901CP8**

STMicroelectronics, Inc  
DIP-48

### **M42Z35AY-10MH1TR**

STMicroelectronics, Inc  
64-LFQFP10x10

### **L6363**

STMicroelectronics, Inc  
QFN12

### **TS68HC901CP4**

STMicroelectronics, Inc  
DIP48

### **M42Z35AY-10MH1E**

STMicroelectronics, Inc  
64-LFQFP10x10

### **Z84C20BB6**

STMicroelectronics, Inc  
DIP40

### **M42Z35AV-10MH1TR**

STMicroelectronics, Inc  
64-LFQFP10x10

### **M42Z35AV-10MH1E**

STMicroelectronics, Inc  
64-LFQFP10x10