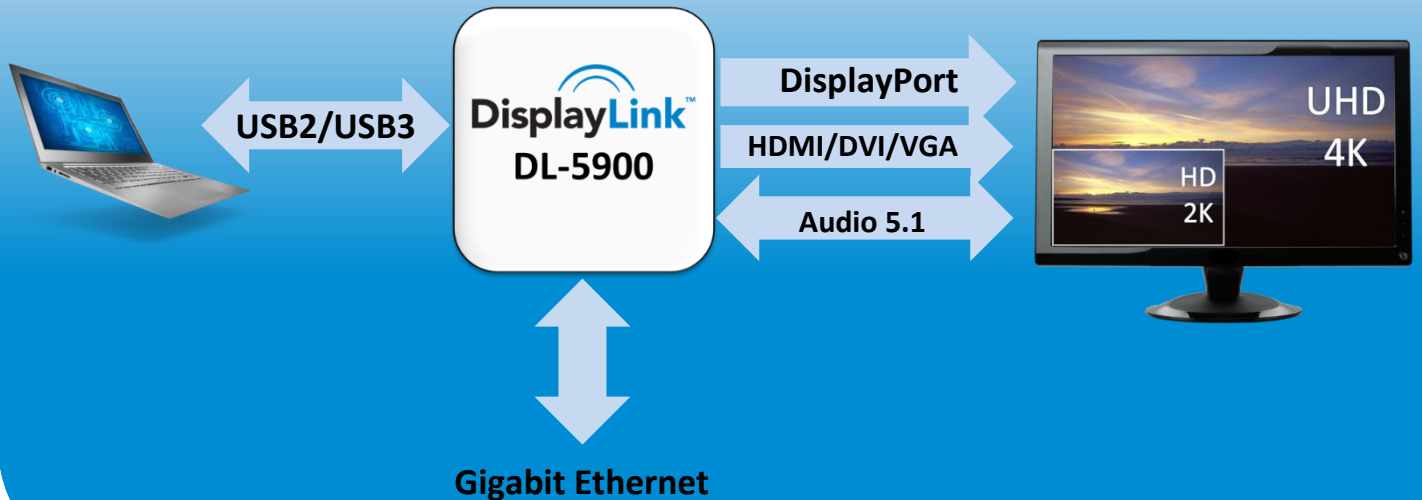


# DisplayLink DL-5900 SoC

## 4K Ultra-High Definition Universal Docking



## 4K Ultra-High Definition Universal Docking

From the world leader in USB graphics, DisplayLink introduces the new DL-5900, an SoC solution created to extend the DisplayLink USB universal docking solution to 4K Ultra-High Definition monitors and displays. The DL-5900 allows OEMs to offer support for the latest ultra-high resolution 4K display technology. Based on the industry-leading DL3 codec the DL-5900 offers the same benefits of low latency and high quality graphics over a USB connection, now for 4K.

Ideal for docking applications the DL-5900 integrated Ethernet and Audio interfaces with the addition of a stand USB3 hub enables a complete universal docking solution.

### Benefits

- Compatible with new USB Type-C or legacy USB connectors
- High quality with low latency
- Integrated Ethernet and Audio
- 100% compatible with existing DL universal docking
- Can be used with other DisplayLink products to enable up to 6 USB displays

### Features

- 1x 3840x2160 or 2x 2048x1152
- Backward compatible with QHD and HD monitors
- DP 1.2 interface (DisplayPort)
- HDCP 2.0 for protected video playback
- Integrated Gigabit Ethernet
- Integrated 5.1 Audio



### Product Applications

#### USB3 Universal Docks

- 1x 4K Display or
- 1x 2K Display or
- 2x HD Display with
- 4K/UHD dock with built-in Gigabit Ethernet and Audio

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DisplayLink reserves the right to make technical changes To its products as part of its development program, and features are subject to change without notice.

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## 4K Ultra-High Definition Universal Docking



### DisplayLink Certified Plug and Display



DisplayLink Certified products are thoroughly tested in our labs to guarantee interoperability with the vast DisplayLink USB graphics ecosystem. Regular SW updates means a lifetime of performance updates. Look for the DisplayLink Certified Plug and Display Certified Logos.

### Supported Platforms

**Microsoft® Windows™**  
 Windows 10  
 Windows 8, 8.1  
 Windows 7  
 Legacy Windows XP - Vista

**Apple® Mac® OS**  
 OSX 10.8 onwards

**Google Android™**  
 v5.0 Lollipop onwards

**Linux**  
 Ubuntu 14.10 onwards

### DisplayLink Compression – DL3

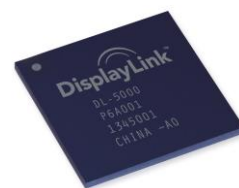
- Ultra-Low latency
- Clear and crisp text and graphics
- Link aware-Adapts automatically to bandwidth constraints
- Compression tuned for video content and high quality graphics
- Uncompromised UHD video quality
- Compatible with HDCP 2.0 encryption

### Packaging

- 17 mm x 17 mm
- 400 BGA, RoHS and industry Green conformance
- 0.8 mm ball pitch

### Reference Design

- DisplayLink Supplies a complete set of schematics and PCB layout information along with firmware and OS drivers to complete a 4K/UHD Universal Dock



Feature/Product	DL-3500	DL-3700	DL-3900	DL-3950	DL-5500	DL-5700	DL-5900	DL-5910
Configuration*	0:1:1	0:1:1	0:1:2	0:2:2	1:1:1	1:1:1	1:1:2	1:2:3
3840x2160p30					1x	1x	1x	1x
2560x1600/1440	1x	1x	1x	2x	1x	1x	1x	2x
2048x1152p60	1x	1x	2x	2x	1x	1x	2x	3x
1920x1080p60	1x	1x	2x	2x	1x	1x	2x	3x
Dual Head			✓	✓			✓	✓
Single Head	✓	✓			✓	✓		
DP (external)	✓	✓	✓	✓	✓	✓	✓	✓
HDMI	✓	✓	✓	✓			✓	✓
DVI	✓	✓	✓	✓			✓	✓
VGA	✓	✓	✓	✓			✓	✓
Gigabit Ethernet		✓	✓	✓		✓	✓	✓
Audio 5.1	✓	✓	✓	✓	✓	✓	✓	✓



2160p



DisplayLink Dock Products Selection Table

\*Configuration: 4K:2K:1K head count