

# OCuLink Connector – G14 Series

## COMPACT, HIGH SPEED, NEXT-GENERATION PCIe/SAS INTERFACE

OCuLink is a companion specification to the PCI Express (PCIe) Base Specification. The primary focus is the implementation of internal and external Small Form Factor PCIe connectors and cables optimized for the client and mobile market segments. This specification defines cabling and connector requirements to meet the PCIe Gen 4, 16Gb/s signaling needs, enabling optical and copper technology to coexist.

- Fully compliant to SAS and PCIe protocol
- Supports new PCIe 4.0 spec running at 16Gb/s per lane
- Supports pluggable module applications
- Supports low profile add-in card applications

### FEATURES

- High density, 4mm height connector
- Supports external I/O applications
- Small Form Factor
- High data rate
- Low profile packaging
- Meets SAS 4.0, 24Gb/s specification
- Flexible Dip-in-Paste (DIP) shell leg aids PCB design
- Passive and active latch mount cable assembly

**NEW**


### TARGET MARKETS



### BENEFITS

- Low profile connector design saves space
- Receptacle mates with pluggable modules
- Supports desired high speed design
- Meets next-generation industry standards
- Supports wide variety of applications
- Easy to assemble

## TECHNICAL INFORMATION

### MATERIAL

- Housing: High Temperature Thermoplastic
- Contact: Copper Alloy
- Shell: Stainless Steel

### MECHANICAL PERFORMANCE

- Mating Force
  - Without Latch: 20N max.
  - Passive Latch: 40N max.
  - Active Latch: 40N max.
- Unmating Force
  - Without Latch: 16N max.
  - Passive Latch: 25N max.
  - Active Latch: 25N max
- Durability: 50 mating cycles min.

### PACKAGING

- Tape and Reel

### ELECTRICAL PERFORMANCE

- Voltage Rating: 30V AC (RMS)/DC max
- Current Rating: 0.5A max.
- Dielectric Withstanding Voltage: 250V AC

### ENVIRONMENTAL

- Operating Temperature: -40°C to +85°C
- Ambient Humidity: 80% R.H. max.
- Mixed flowing gas

### SPECIFICATION

- Amphenol Product Specification: PS7545

### TARGET MARKETS/APPLICATIONS



Telecommunications  
Switch



Mobile Device



Data Center  
Storage Systems  
Workstation  
Server



Instrumentation & Medical  
Industrial PCs  
Industrial Controls & Instruments

## PART NUMBERS

Description	Orientation	Termination	Part Numbers
OCuLink 4x	Right Angle	SMT shell leg SMT + DIP	G14A421X1XXXHR
OCuLink 4x	Right Angle	SMT shell leg DIP	G14A421X1BXXXHR
OCuLink 4x	Vertical	SMT shell leg DIP	G14A422X1XXXHR
OCuLink 4x	Right Angle	SMT shell leg SMT	G14A421X11X1XHR
OCuLink 4x	Vertical	SMT shell leg DIP with hold down	G14A422X1XXXAHR
OCuLink 8x	Right Angle	SMT shell leg SMT	G14B801X11XXXHR
OCuLink 8x	Right Angle	SMT shell leg DIP	G14B801X1XXXHR
OCuLink 8x	Vertical	SMT shell leg DIP	G14B802X1XXXHR

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