Lynx[™] **QD**

THE QUAD DIFFERENTIAL SOLUTION

Optimized for differential pair signaling, Lynx™ QD sets a new standard for density and flexibility that offers an innovative, high performance interconnect with PCIe® Gen 5 support. Lynx™ QD supports data rates of 56 Gb/s PAM4 and provides a 4 row differential signaling structure, in a compact 2 row footprint. Currently available in right angle, coplanar and vertical stacker form factors with 12, 20, 40, 60 and 80 differential pairs, Amphenol ICC's Lynx™ QD delivers the flexibility to solve even the toughest design requirements. Mezzanine versions in 4mm-15mm stack heights will be launched soon.

- Optimized for differential pair signaling, configurable for open pin field
- Provides multiple design options for developers, including flex/ cable options
- Conforms to PCIe® Gen 5 standard
- Robust mechanical strength and sustained signal integrity across all form factors
- Delivers fast time-to-market options for system design



FEATURES	BENEFITS
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FEATURES	DENEFITS
■ Supports 56 Gb/s PAM4, PCIe® Gen 5	 Delivers superior performance and an upgrade path to future system designs
 Optimized for differential pair signaling 	 High density, compact footprint that is also configurable for open pin field applications
 High-density, compact footprint 	12 to 80 differential pair modules36 to 240 conductors
 Available in multiple form factors 	 Promotes application flexibility
• Features alignment block	Guarantees proper alignment and mating
 Comes with integrated guide posts 	 Allows for multiple connector configurations
 Available with PCB alignment clips 	Provides stability/mechanical strength
 Wide ground contacts allowing routing from both sides of the connector 	• Reduces PCB layer count
 Integrated flex/cable options available 	Promotes design flexibility

TECHNICAL INFORMATION

MATERIAL

• Contacts: High performance copper alloy

 Housings: High temperature reinforced polyester (Liquid Crystal Polymer)

MECHANICAL PERFORMANCE

■ 4-Row 0.90mm pitch, 20 to 80 differential pairs

Normal Force: 25g per pin EOLMating Force: 27g per pin typical

• Mechanical Wipe: 0.50mm

ELECTRICAL PERFORMANCE

Supports 56Gb/s PAM4, PCIe® Gen 5

• Impedance: 92Ω

• Current rating: 1.5A per pin

PACKAGING

■ Tape & Reel

SPECIFICATION

- TB-2346 Lynx™ QD Product Specification
- TB-2345 Lynx™ QD Application Specification
- TB-2353 Lynx™ QD Routing Guide

ENVIRONMENTAL

- Operating Temperature Range: -55°C to 105°C
- Flammability Rating: 94BV-0
- RoHS compliant
- · Lead-free solder

TARGET MARKETS/APPLICATIONS



Car Navigation Systems



Telecom
Datacom
Switches and Routers



Entertainment PC Gaming Machine Test Equipment



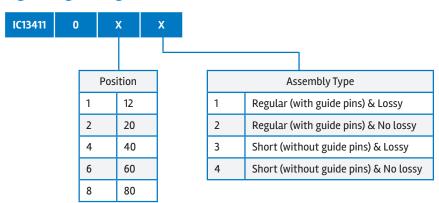
Routers and Servers Data Center Network



Imaging

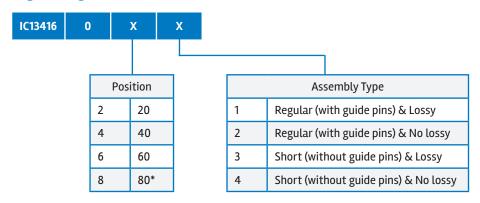
PART NUMBER SELECTOR

Right Angle Plug: (Released)



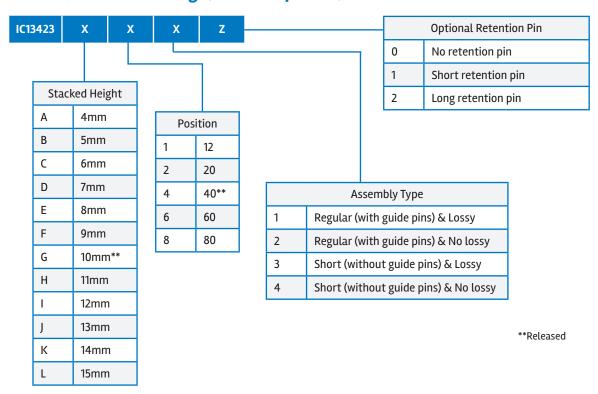
Lynx[™] QD

Right Angle Receptacle: (Released)

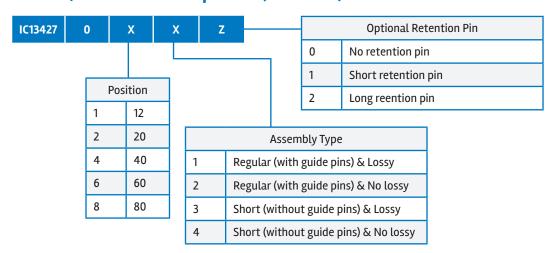


*In development

Stacker/Mezzanine Plug: (In Development)



Stacker/Mezzanine Receptacle: (Released)



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