

Amphenol

COMMUNICATIONS SOLUTIONS

Lynx™

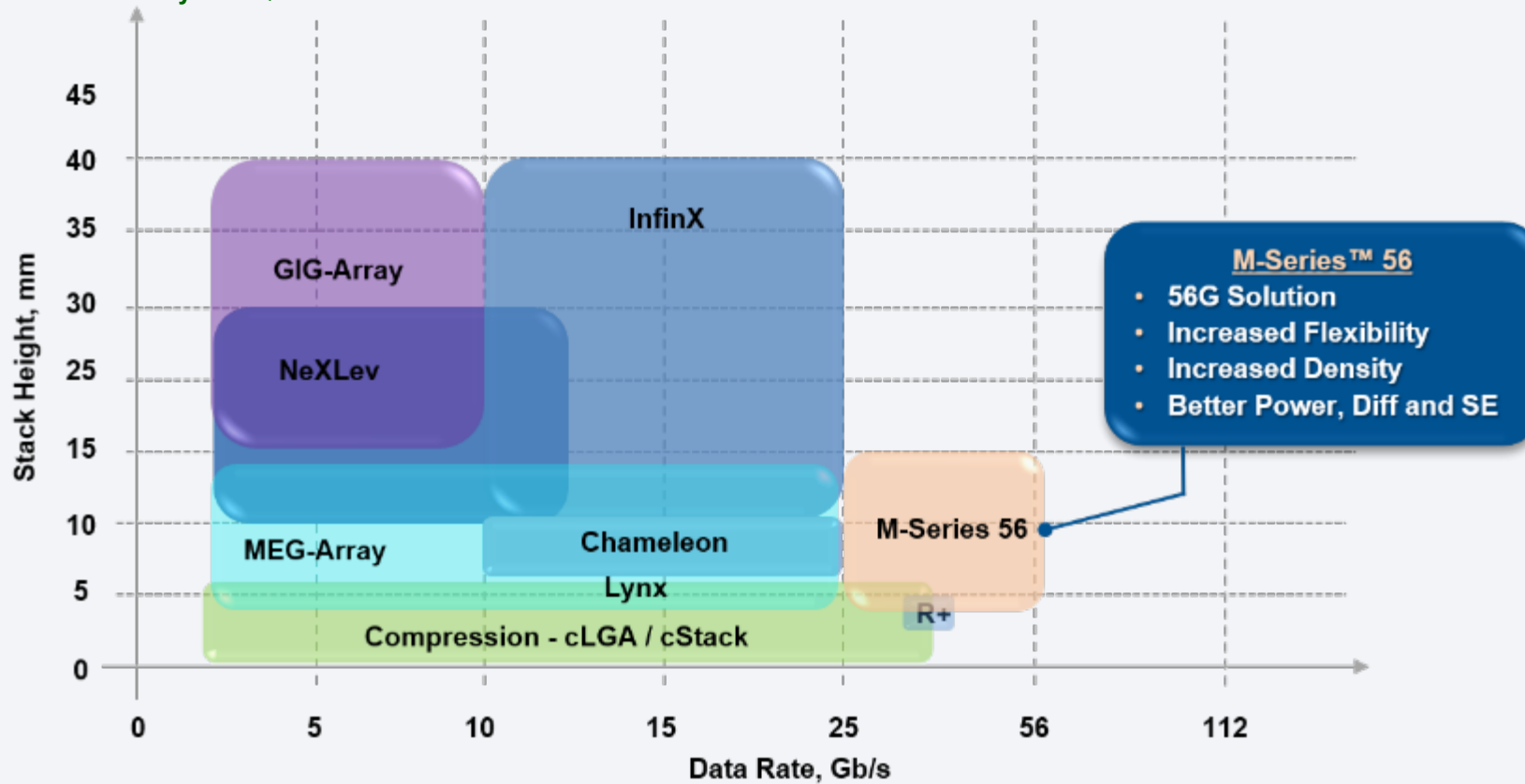
Product Presentation

April 2022



High Speed Mezzanine

Product Portfolio



- **Designed for compact footprint, flexibility & speed**

- Stack heights: 4mm-8mm and 10mm
- Module sizes from 10 – 70 positions, 40 – 280 pins
- Open pin field design



- **High Density & Compact**

- Pitch: 0.6mm pitch
- Density: 43 diff. pairs/in²
- 4 contact rows in an array style
2 row footprint

- **Performance**

- Up to 25Gb/s at 4mm – 7mm
- Up to 10GB/s at 8mm, 10mm
- Highly reliable J-Lead SMT attachment



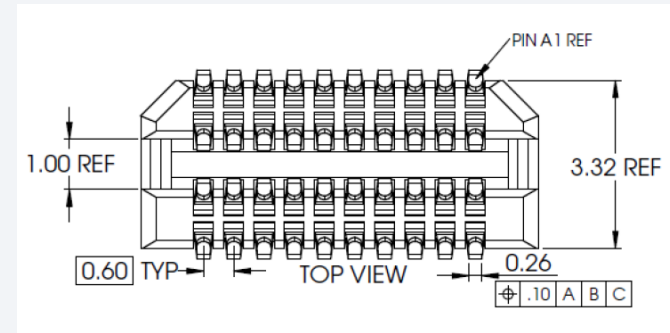
Lynx Features

Features and Benefits

Features	Benefits
0.6mm pitch between contacts in a 4 row module	High density packed in a compact footprint with an effective 0.3mm pitch compared to standard 2 row solutions
Supports 25Gb/s at 4mm to 7mm 12Gb/s at 8mm, 10mm	High bandwidth and excellent signal integrity, flexible data rates
Stack heights for 4mm to 10mm Pin counts for 40 to 280	Configure a variety of board to board heights, module sizes for design options
Open field flexibility	Differential pair, single ended and power support
Built in alignment features	Enables blind mating as needed for mezzanine applications

- **Mechanical Characteristics**

- Stack heights: 4mm-8mm, 10mm
- Module sizes from 10 to 70 position
 - 40 to 280 contacts
- Density: 43 diff. pairs/in²
- Contact wipe: 0.5mm



- **Signal Integrity Performance**

- Capable up to 25 Gb/s (stack height dependent)
- Impedance: 85Ω Differential.
- Supports 0.5A per contact
- Crosstalk reflection: 5%



Lynx Tooled Options

Fully tooled, with multiple options

AVAILABILITY

Plug	10POS	15POS	20POS	30POS	40POS	50POS	60POS	70POS
4mm	✓		✓	✓	✓	✓	✓	✓
5mm	✓		✓	✓	✓	✓	✓	✓
6mm	✓		✓	✓	✓	✓	✓	✓
7mm	✓		✓	✓	✓	✓	✓	✓
8mm	✓	✓	✓	✓	✓	✓	✓	✓
10mm	✓	✓	✓	✓	✓	✓	✓	✓

Receptacle	10POS	15POS	20POS	30POS	40POS	50POS	60POS	70POS
3mm	✓	✓	✓	✓	✓	✓	✓	✓

■ Key Customer Messages

- Field proven reliability and innovation
- High density on a narrow footprint – ideal for many applications
- Paired with our Custom Assembly/Integration capability
- Roadmap to 56Gb/s with Lynx™ QD



■ Key Qualifying Questions

- Has PCB real estate become an issue in your designs?
- Is your current solution flexible enough to meet future needs?
- Does your application require a multi-connector solution
- What are your speed requirements for now and the future?
- Can you support all your signaling needs?



■ Cable & Flex Options

- Micro cable interface for flexible circuit
- Connector/cable assemblies & Near Chip
- We have a dedicated Team to design custom solutions



Anywhere 2 or more boards come together

