April 2025

AttoTude

The World's First THz Radio Over Wire

https://www.attotude.com

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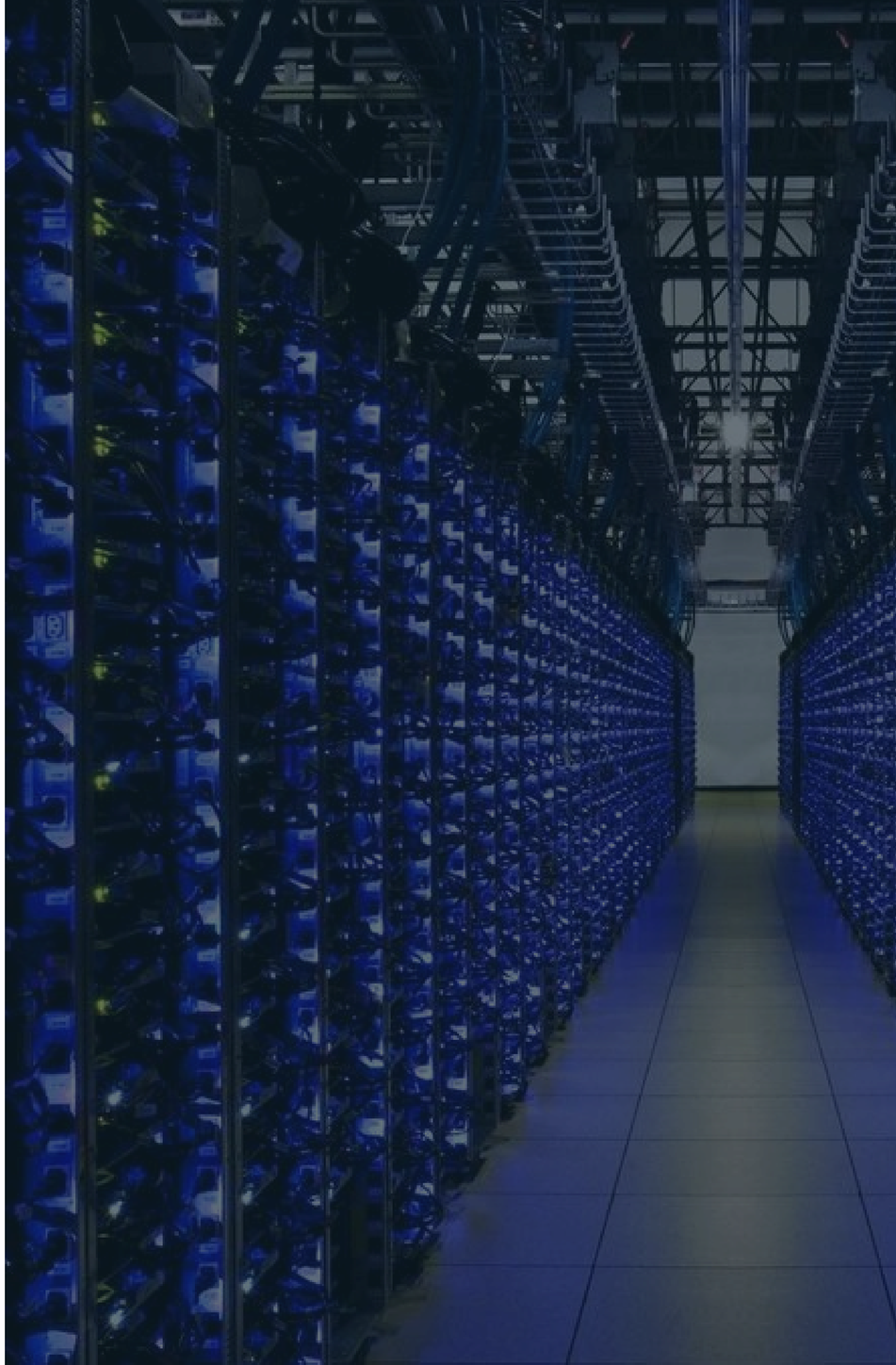


Company Overview

AI needs hardware now

High-speed interconnect solutions for AI and hyperscale data centers, enabling data transmission speeds surpassing current solutions

- Low latency
- Lower energy/bit
- Direct chip-to-chip
- Low-cost & Scalable

Founder Spotlight

Dave Welch, PhD Cornell

Co-Founder and CEO: 40 years of experience in fiber optics and optical communications, CTO/VP at SDL, 200+ patents

Joy Laskar, PhD UI

Co-Founder and CTO: serial entrepreneur, IEEE Fellow, RF Solutions founder

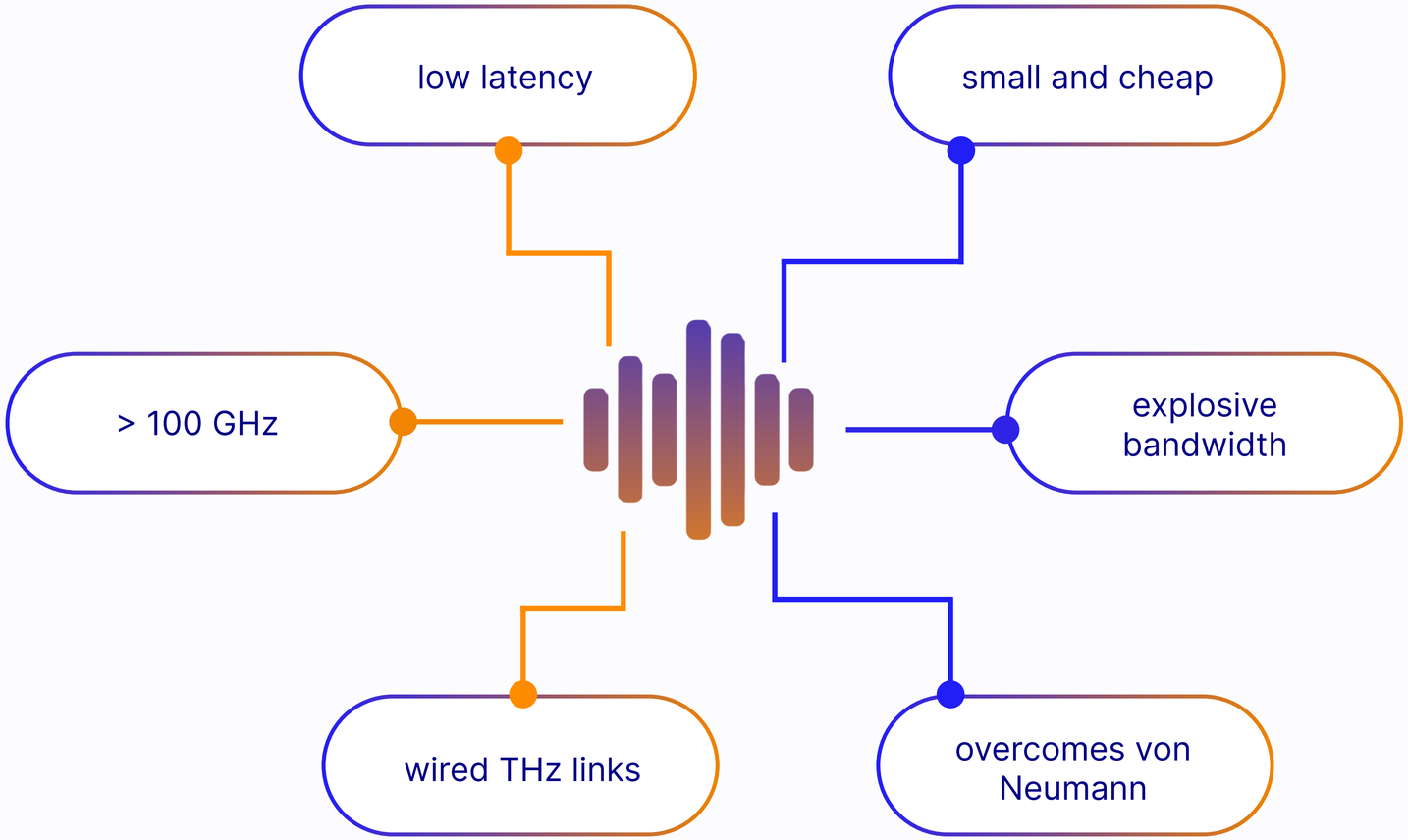
Company Overview

Why terahertz (THz)?

1 THz = 1000 GHz

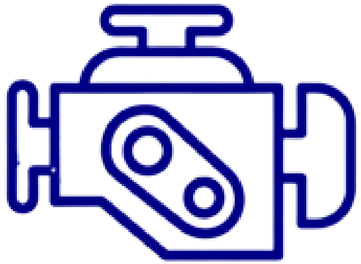
AttoTude's **THz wired networking** avoids wireless THz issues and sustains **high-density data movement** with **stability**

Shorter wavelengths carry larger amounts of data



Product Overview

AttoWire + AttoEngine



AttoEngine

A custom-designed integrated circuit:

- makes signals
- O&M
- AI units
- CMOS

+

AttoWire

A physical transmission medium

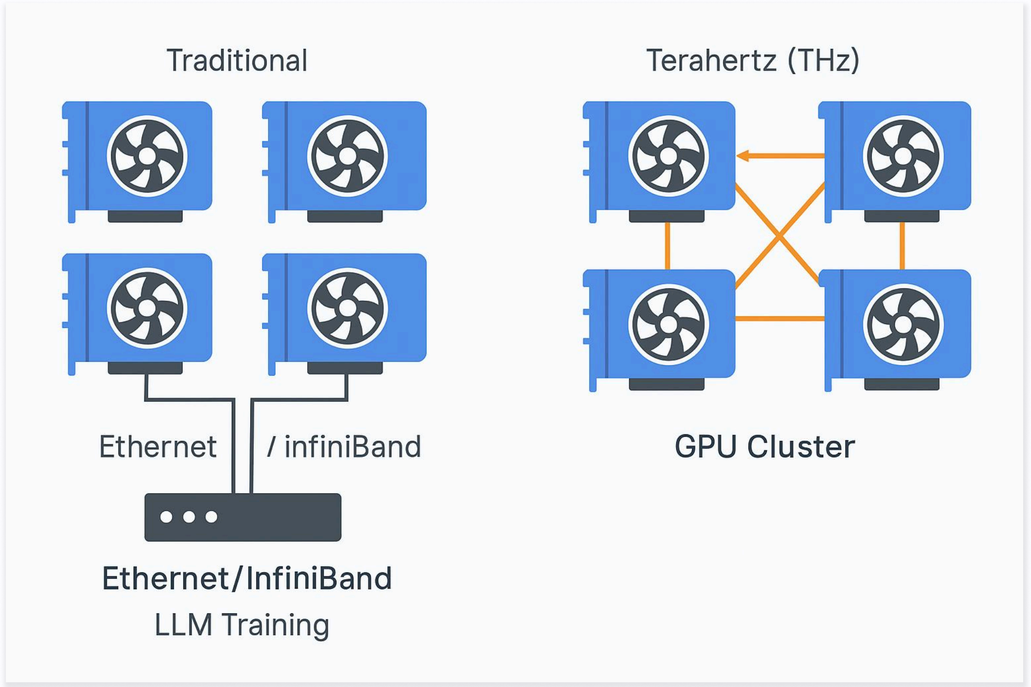
- sends signals
- no conversion
- = speeds
- single integrity

Product Overview

A quick comparison

Traditional: Ethernet, InfiniBand and PCIe

- 25-112 Gb/S
- Moderate-high latency
- High consumption
- Limited scalability
- General purpose
- High speed costs
- Photonics/special ASIC



AttoTude: AttoWire + AttoEngine

- 1.6 Tb/s
- Ultra-low
- Lower consumption
- Direct scaling
- General purpose
- AI/HPC loads
- Simply design

Product Overview

Milestones

Q2 2024

Stable THz data transmission over wires with CMOS reached

Q4 2024

Low BER <10e-12 without heavy error correction needed

Coming soon

Production tape-out for commercialization and real-time implementation

MCM AttoEngine chiplet with chip-to-chip THz communication

Q3-Q4 2024

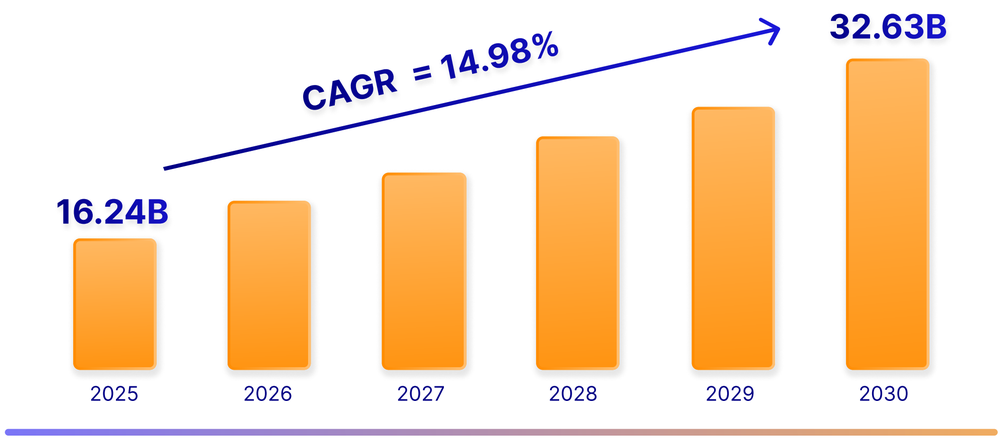
Replaced short-reach traditional optical transceivers for Series B

Q1 2025

Market Overview

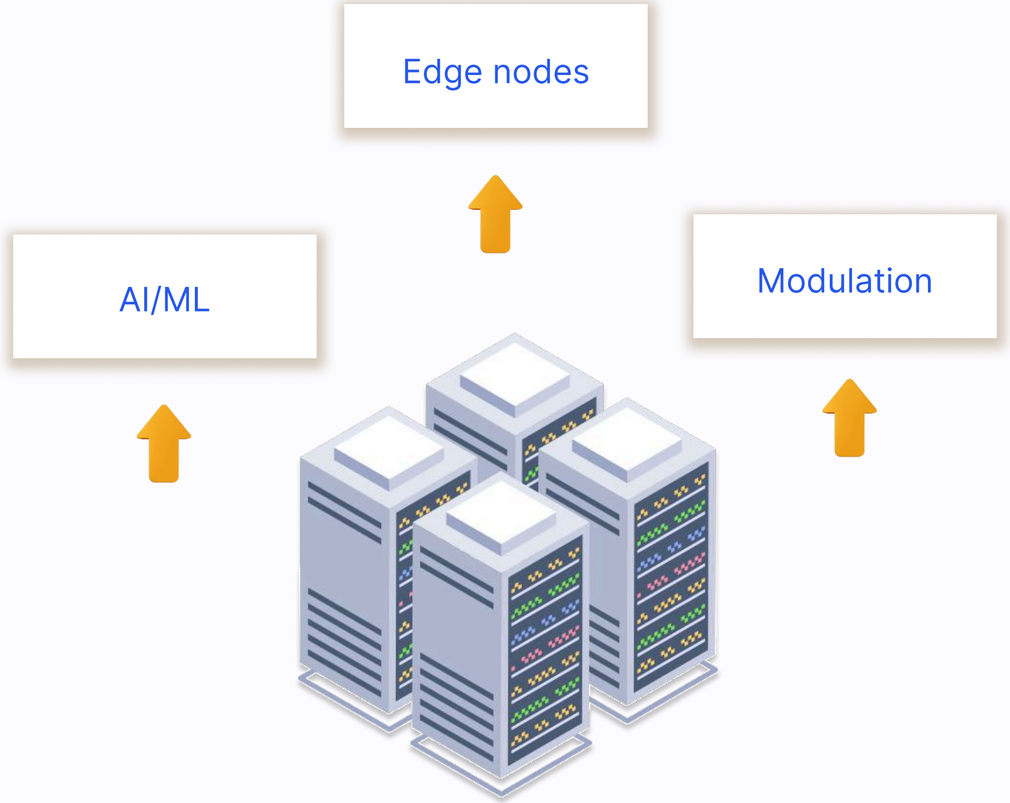
A growing DCI market

Data Center Interconnect (DCI) Market



Market Leaders

intel · JUNIPER · LIGHTMATTER · AyarLabs · BROADCOM · celestial AI



Market Drivers

Market Overview

Competitors

	ATTOTUDE	MATURE COMPANIES		STARTUPS	
	AttoTude	intel	JUNIPER	AyarLabs	celestial AI
TECH	THz wired electrical signals	CXL, silicon photonics	Optical transport, switching fabrics	Optical chiplet I/O	Photonic memory interconnect
SPEED	112-448+ Gb/s (electrical THz)	100-800 Gb/s (electrical, optical)	100-400 Gb/s (optical)	256-1000 Gb/s (optical)	400+ Gb/s (optical/ switching)
DIFFERENTIATOR	THz over wire, no optics or SerDes	End-to-end platform	Switching expertise	Chiplet doesn't require drivers	Memory-light integration; low latency
MANUFACTURING	Standard CMOS	Strong IDM control, fab access	Mature partnerships	Complex photonics	Needs new photonic workflows
FINANCIALS	Series B $91M	Public $150B+	Public $1.5T	Series C $250M	Series C $165M

Financials

Revenue

Revenue Build (Millions)

	Revenue
Hardware	3
Licensing	2
Software	0

EV/Sales: 3.3x

Revenue Projection (Millions)

YEAR	2025	2026	2027	2028	2029	2030
REVENUE ($)	5	12.5	25	45	76.5	122.4
GROWTH (%)		150%	100%	80%	70%	60%
EV						407.54

Financials

Analysis

(Millions)

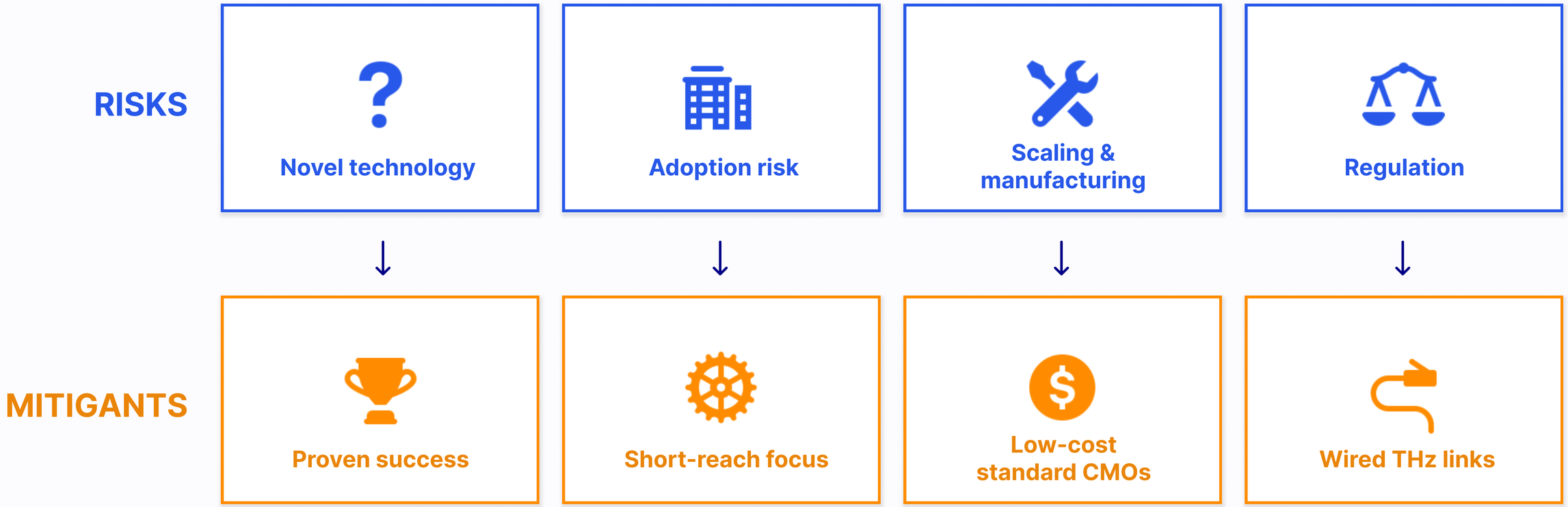
	Bull Case	Base Case	Bear Case
RETURN ($)	128.1	61.13	38.72
IRR	91%	65%	51%
MOIC	25.62x	12.23x	7.74x

Initial Investment: $5M

Equity Stake: 15%

Risks & Mitigants

Overcoming challenges



Future Outlook

What’s next?

Product expansion

Scale production

Hyperscalar & AI Infra Vendors

Hybrid model revenue

Exit Opportunities

M&A or IPO?

Both are **likely** depending on how different factors play out:

M&A

- Medium term
- Big Tech strategic fit
- Unmet steady revenue
- LLM scaling demand

Ayar Labs heavy backing from Intel

Inphi acquired by Marvell for $10B

IPO

- Widespread adoption
- Stack expansion
- Chiplet sales
- IP licensing

Credo 2022 $1.4B IPO

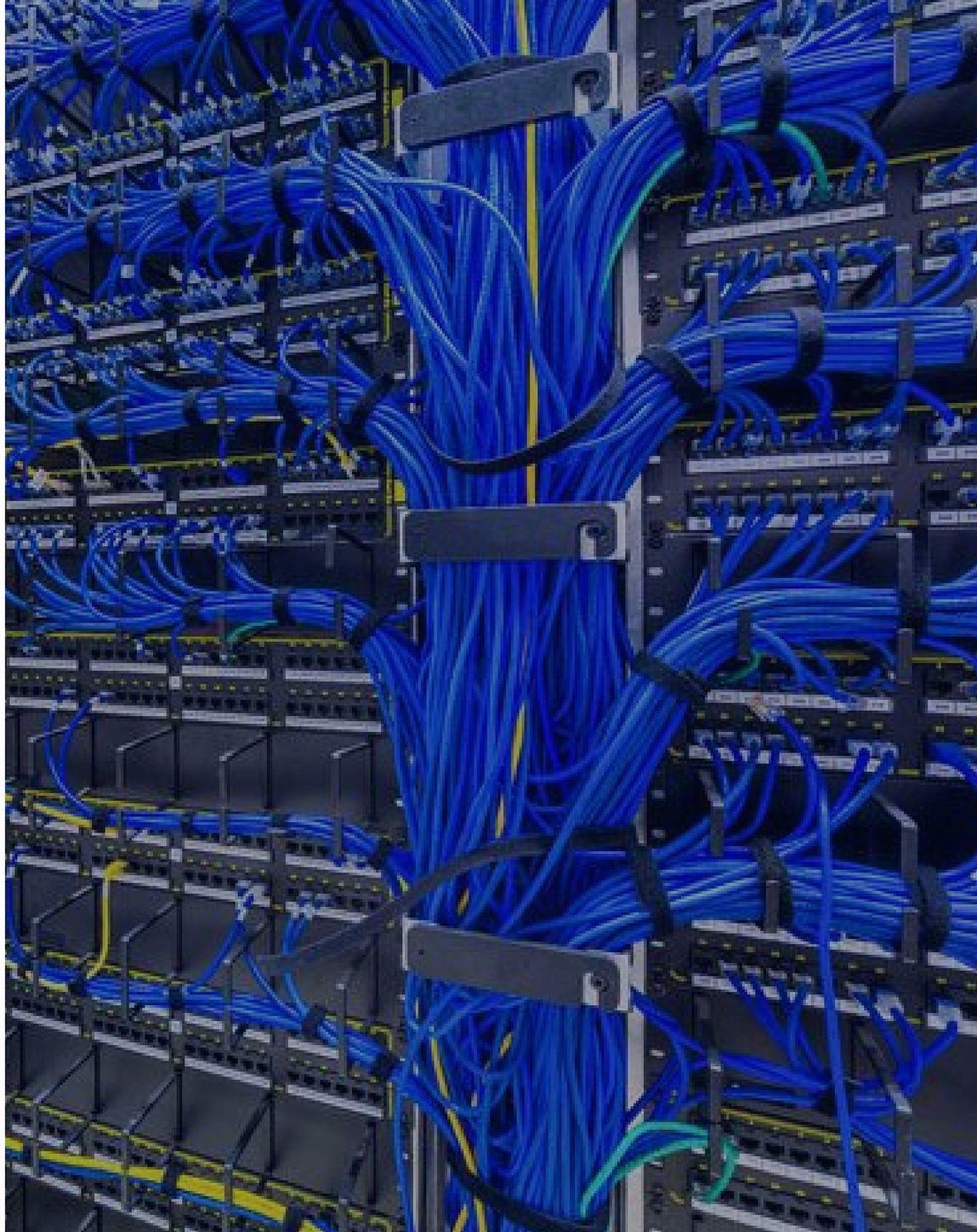
Astera Labs 2024 $5.5B IPO

Investment Thesis

Making a decision

The NVIDIA of interconnect: Advanced model compute is already here. **Model communication** is next. **Why we need AttoTude**:

- billion dollar exit potential
- first wired THz technology
- AI/ML compute support
- the better alternative



Appendix A

Revenue (Millions)	Forecast Period					
Year	2025	2026	2027	2028	2029	2030
Bull	$5.00	$15.00	$37.50	$75.00	$142.50	$256.50
%growth		*200%*	*150%*	*100%*	*90%*	*80%*
Base	$5.00	$12.50	$25.00	$45.00	$76.50	$122.40
%growth		*150%*	*100%*	*80%*	*70%*	*60%*
Bear	$5.00	$10.00	$19.00	$32.30	$51.68	$77.52
%growth		*100%*	*90%*	*70%*	*60%*	*50%*

EV/Sales Multiple Average			
Company	Revenue(B)	Enterprise Value(B)	EV/Sales
Marvell	10	54	5.4
Juniper Networks	5	12	2.4
Intel	53	116	2.188679245
		Mean	3.329559748

Bull Case (Millions)						
Years	0	1	2	3	4	5
Initial Investment	5					$128.10
IRR						91%
MOIC						25.62

Base Case (Millions)						
Years	0	1	2	3	4	5
Initial Investment	5					$61.13
IRR						65%
MOIC						12.23

Bear Case (Millions)						
Years	0	1	2	3	4	5
Initial Investment	5					$38.72
IRR						51%
MOIC						7.74