## SPECTR/7®

#### **Corporate Overview**



TICKER: **SEV** TSX VENTURE EXCHANGE 0::::



TICKER: **SPVNF** otcqb venture market

As of November 6, 2023

#### **Cautionary Notes**

### SPECTRA7

This management presentation is intended to provide an overview of the business of Spectra7 Microsystems Inc. ("Spectra7," "we," "us," "our," and together with our subsidiaries and variable interest entities, the "Company"). It has been prepared for information purposes only and does not purport to be complete. It is not intended to be relied upon as advice to or as a solicitation from investors or potential investors in connection with a distribution of securities of the Company and does not take into account the investment objectives, financial situation or needs of any particular investor.

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This presentation contains forward-looking statements. These statements include statements about our plans, strategies, financial performance, prospects or future events and involve known and unknown risks that are difficult to predict. As a result, the actual results, performance or achievements of the Company may differ materially from those expressed or implied by these forward-looking statements. In some cases, you can identify forward-looking statements by the use of words such as "may," "could," "expect," "intend," "plan," "seek," "anticipate," "believe," "estimate," "predict," "potential," "continue," "likely," "will," "would," and variations of these terms and similar expression, or the negative of these terms or similar expressions. Such forward-looking statements are necessarily based upon estimates and assumptions that, while considered reasonable by the Company and its management team based on their experience are inherently uncertain. All statements in this presentation regarding our business strategy, future operations, financial position, prospects, business plans and objectives, as well as information concerning industry trends and expected actions of third parties are forward-looking statements. All forward-looking statements speak only as of the date as of which they are made. These statements are not guarantees of future performance and involve certain risks, uncertainties and assumptions concerning future events that are difficult to predict. Factors that could cause actual results, performance or achievements to differ materially include, but are not limited to, the risk factors discussed in the Company's Management's Discussion & Analysis for the year ended December 31, 2022. Management provides forward-looking statements made in this presentation are qualified by these cautionary statements and objectives and cautions investors contained herein, and there can be no assurance that the actual results or developments will be realized or, even if substantially realized, that they will have th

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#### CURRENCY

All dollar amounts in this presentation are presented in US Dollars unless otherwise stated.

### Why Spectra7

#### Highly differentiated solution in fast growing market

- High-growth hyperscale data center connectivity market where our segment addressable market exceeds \$1 billion by 2027\*
- Fills a critical connectivity gap with a unique, high-speed, low-power solution
- Significant operating cost and capex savings for customers

#### Proven technology and first mover advantage

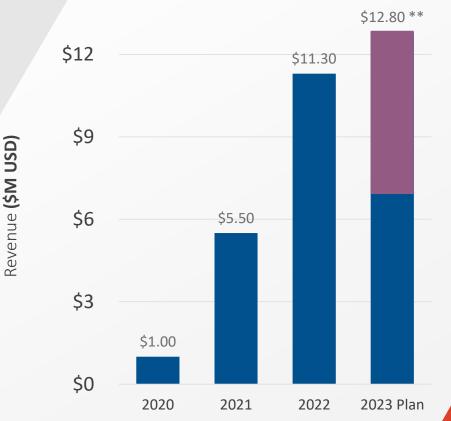
- 12 years in the industry with 55 U.S. issued patents
- AR/VR design-win in production for top global game console manufacturer
- Third generation Active Copper Cable technology with 2 years head start in the data center connectivity market

#### Rapidly scaling revenue

- 2022 revenue \$11.3 million, doubled 2021 of \$5.5 million
- 2023 revenue target of \$12.8 million
- Highly scalable, lean operating platform

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**Revenue Trend** 



Source: 650Group Active Copper Cable Report July 2023

\*\* Assumed midpoint of H2 2023 revenue guidance of \$6.0 and \$6.8 million

YTD 2023 Revenue of \$9.6 million, a Spectra7 Record

### Spectra7 at a Glance

#### What We Do

Spectra7 Microsystems Inc. is the leader in highperformance analog semiconductor products for broadband connectivity markets

The Company headquarters is in San Jose, CA, with sales and operations support in Dongguan, China

Tickers: SEV (TSX-V), SPVNF (OTCQB) Corporate HQ: San Jose, CA Incorporated: 2010 Technology: Backed by 55 patents



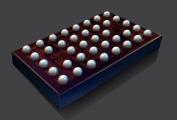
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#### What We Do

Our high-performance analog semiconductors are embedded in the connector of a copper cable, or an active copper cable, enabling it to be ultra-thin with high-speed connectivity

#### **Blue-Chip Partners**





- Spectra7 is the leader in the Active Copper Cable market
- Customers deploying our Active Copper Cable solutions benefit from both CapEx and OpEx savings

#### **Addressed Markets**

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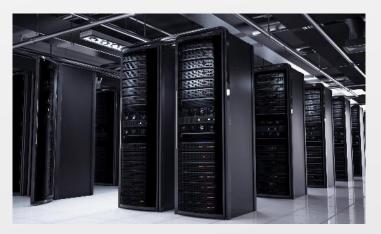
#### **Currently Serving**



Consumer Connectivity



Augmented/Virtual Reality



Data Centers/AI Connectivity

#### Significant growth in the near term will be driven by the data center connectivity market

**Future Growth Fueled by:** 



Automotive Market



Switching Systems



5G Infrastructure

### **Virtual Reality Solutions**

for Next-Generation 4K and 5K Headsets



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#### **DreamWeVR™**

Spectra7's new chips allow VR and AR devices to drive resolutions of 4K UHD and 5K with very low-latency over an ultra-thin all-in-one interconnect.



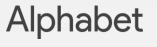
### Hyperscale Cloud Infrastructure

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A Large and Growing Market

### "Al Infrastructure Investments Will Lift Data Center Capex to Over \$500 Billion by 2027" - Dell'Oro, July. 2023





Google





∞ Meta

Microsoft Azure



Metaverse

ASIA EZ Alibaba Group



ByteDance

Tencent 腾讯

### How Spectra7 will Benefit from Growth of AI

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- AI Networks will be the first to adopt 112G PAM4 Signaling, necessitating Active Cables for ~50% of server connections. (DACs only reach 1.5m)
- Al Networks require 3X more bandwidth than traditional compute networks, driving capital spending on faster network infrastructure and interconnects.
- ACC technology (pioneered by Spectra7) is superior for AI Networks. Advantages include lowest power, lowest latency and lower cost.
- ACC technology is protocol agnostic and supports both Ethernet and InfiniBand.

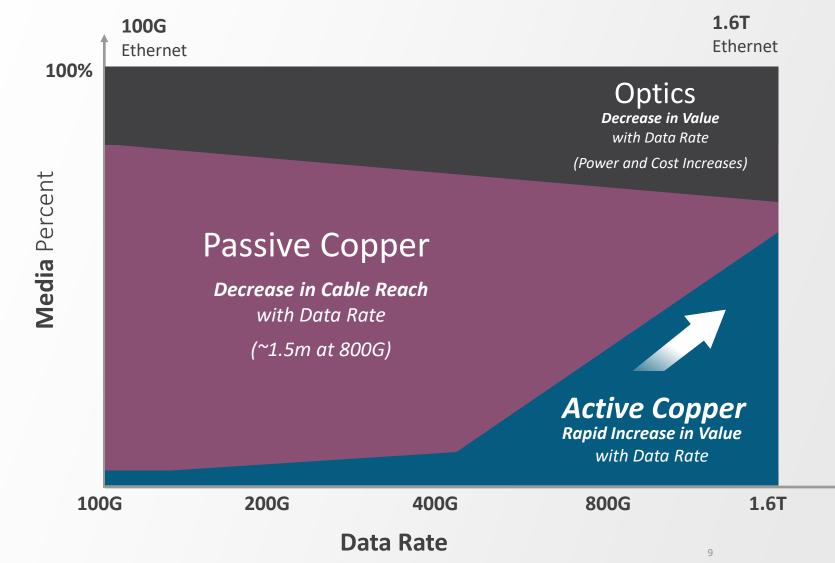


"AI Will Be a Primary Driver for Active Copper Cables in the Data Center Over the Next 4 Years"

- 650Group July 2023

### **The Opportunity**

#### Passive Copper Cables Cannot Meet Connectivity Requirements as Data Rates Increase in the Data Center



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### **Active Copper Cable Competitive Advantage**

High Performing and Cost Efficient

#### **Passive Copper Cable**

- Lengths up to 3 meters<sup>1</sup>
- Lowest cost
- Lowest power consumption
- Plug and Play

#### LIMITATIONS

- Limited to 2 meters at higher data rates
- Bulky
- Difficult to route
- Blocks air-flow

#### **Active Copper Cable**

- Lengths up to 7 meters<sup>1</sup>
- Lower cost than active optical cables
- Lower power consumption
- Thin, light and flexible
- High quality data transmission
- Plug and Play



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#### **Substitute Products**

#### **Active Optical Cables**

- Up to kilometers in length
- High quality data transmission

#### **Active Electrical Cables**

- Up to 10 meters<sup>1</sup> in length
- High quality data transmission

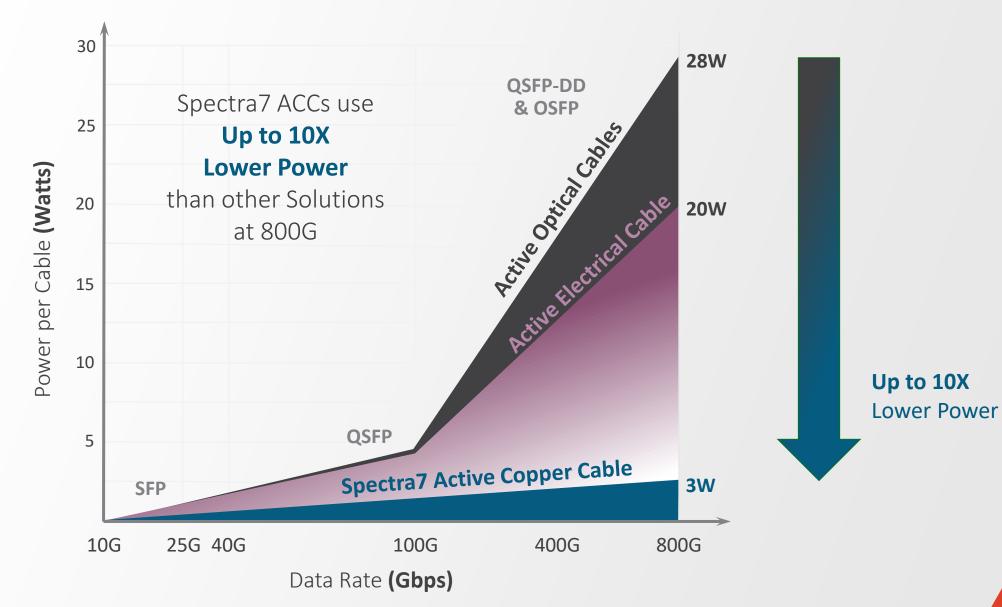
#### LIMITATIONS

- Highest cost
- Highest power consumption
- Higher latency
- Requires host configuration (not plug and play)

### Spectra7 GaugeChanger<sup>™</sup> Active Copper Cable Solution

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Dramatically Improves Power Consumption



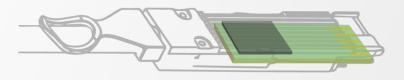
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### Spectra7 GaugeChanger™

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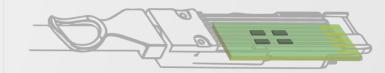
#### Comparison of Active Copper Solutions at 800G<sup>1</sup>

|                          | Active Electrical Cable | Active Copper Cable |  |
|--------------------------|-------------------------|---------------------|--|
| Application to 4 meters  | Yes                     | Yes                 |  |
| Application to >4 meters | Yes                     | No                  |  |
| Power (Watts per cable)  | ~20 Watts               | 3 Watts             |  |
| Latency                  | ~250ns (w/ RS FEC)      | <1ns                |  |
| CapEx Cost               | High Cost (2x)          | Low Cost (1x)       |  |



DSP (Digital Signal Processor) Enabled AEC

Up to 7x the Power Needed



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Analog Redriver Enabled Active Copper Cable

### Power Savings at 800Gbps Add Up

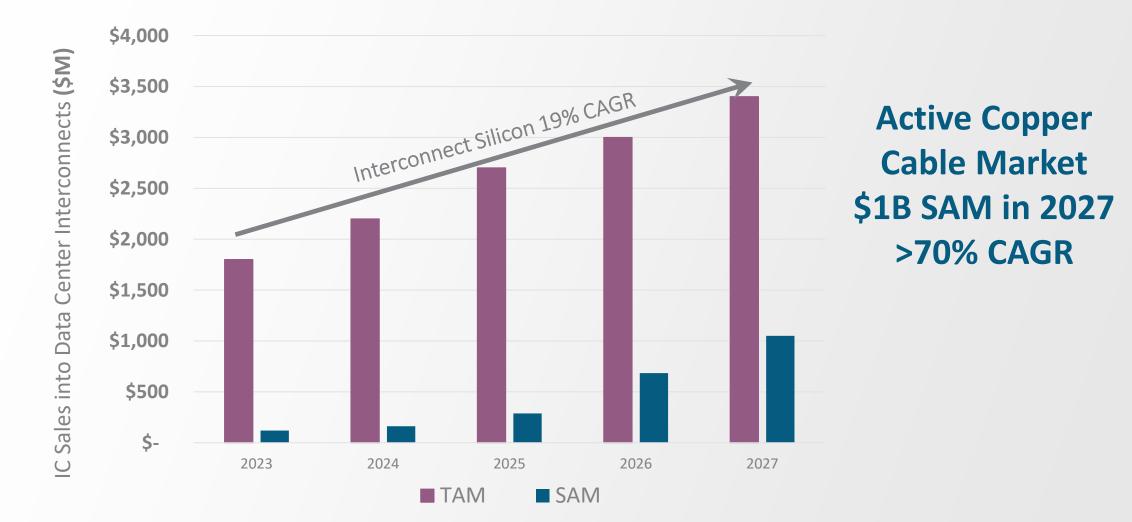
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- Spectra7 can save over 544W per Switch with GaugeChanger™ Technology vs. DSP AEC
- For Hyperscale Data Center with 100k servers, this can add up to 3.4 Megawatts!
- Translates to Electrical savings of up to \$17M per year

|             | AEC  | ACC        | Savings |
|-------------|------|------------|---------|
| Cable       | 20W  | <b>3</b> W | 17W     |
| Switch      | 640W | 96W        | 544W    |
| Data Center | 4MW  | 0.6MW      | 3.4MW   |

### **Data Center ACC Market Opportunity**





Source: 650Group Active Copper Cable Report June 2023; Company management estimates TAM based on Lightcounting silicon chipsets for Ethernet optical transceivers and active cable alternatives Q2 2022

### **Long-term Operating Model**

- Large, high-growth end markets
  - Even minimal market penetration enables
     Spectra7 to achieve significant revenue growth
- Attractive current and long-term gross margins
- Significant operating leverage
  - Current OpEx run-rate supports significant growth
- Capital light business model
  - Outsourced manufacturing
  - Nominal capex

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Spectra7 Target
Operating Model

Revenue Growth: >60% 4-year CAGR

Gross Margin: 60-65%

EBITDA Margin\*: 25-30%

\*EBITDA or earnings before interest, tax, depreciation, and amortization is a non-IFRS Measure. EBITDA excludes share-based compensation, amortization, depreciation, interest, and tax expenses.

### **Key Financial Highlights**

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TICKER: **SEV** tsx venture exchange



TICKER: SPVNF otcqb venture market Share Price<sup>1</sup> Market Capitalization TTM Revenue (9/30/2023) TTM Gross Margin (6/30/2023) Insider Ownership Convertible Debt<sup>2,4</sup> \$ 0.55 CAD \$ 16.0M USD<sup>2</sup> \$ 12.6M USD 59% ~12.6%<sup>3</sup> \$ 8.6M USD

39.8M

Common shares issued

<sup>1</sup> As of 11/6/2023

- $^{\rm 2}$  Based on CAD to USD exchange rate of 1.3708
- <sup>3</sup> Insiders participated in capital raises and invested a total of \$2.6M from 2021 to 2023
- <sup>4</sup> \$6.5M matures December 31, 2024, Interest at 14%, Conversion price of \$1.02 CAD, and
- \$2.1M matures September 13, 2025, Interest at 9%, Conversion price of \$0.65 CAD

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### **Thank You**

Please contact IR@Spectra7.com for more information