Semiconductor Sector Analysis - November 2024 ## Market Overview The semiconductor industry continues its recovery in Q4 2024, driven by AI chip demand, data center buildout, and automotive electrification. Global chip sales reached \$140B in Q3, up 15% YoY. ## Leading Companies ### NVIDIA (NVDA) Leading AI chip manufacturer with dominant position in GPU market. Data center revenue up 279% YoY driven by H100 and upcoming H200 demand. **Key Metrics:** - Revenue: \$18.1B (+206% YoY) Data Center: \$14.5B (+279% YoY) - Gross Margin: 75% ### AMD (AMD) Strong competition in AI accelerators with MI300 series. Growing server CPU market share from Intel. **Key Metrics:** - Revenue: \$5.8B (+18% YoY) - Data Center: \$1.6B (+21% YoY) - Client: \$1.5B (+42% YoY) ### Intel (INTC) Struggling with manufacturing delays but improving under new leadership. Foundry services showing promise. **Key Metrics:** - Revenue: \$14.2B (-8% YoY) - Client Computing: \$7.9B (-3% YoY) - Data Center: \$3.0B (-10% YoY) ### Qualcomm (QCOM) Leading in mobile processors and expanding into automotive and IoT sectors. **Key Metrics:** - Revenue: \$8.7B (+13% YoY) - Handsets: \$5.9B (+6% YoY) - Automotive: \$0.5B (+68% YoY) ### Broadcom (AVGO) Diversified semiconductor and infrastructure software. Strong AI networking chip demand. ## Industry Trends 1. **AI Acceleration:** Continued strong demand for AI training and inference chips 2. **Automotive Semiconductors:** EV and ADAS driving growth 3. **Manufacturing:** TSMC maintaining technology leadership 4. **Geopolitics:** US-China tensions affecting supply chains

Investment Thesis

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**Bullish on AI Infrastructure:**
- NVDA: BUY - Dominant AI position
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- AMD: BUY - Share gains from Intel

- AVGO: BUY - Networking opportunity

- **Cautious on Traditional Computing:**
 INTC: HOLD Turnaround uncertain
 QCOM: BUY Diversification paying off

Risk Factors

- Trade restrictions on China exports
- Cyclical downturn risk
- Inventory correction in some segments Competition intensifying in AI chips