Performance and Growth

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GLOBAL PC MARKET
ENORMOUS OPPORTUNITY

Commercial $22B
Gaming $9B
Consumer $19B

$50B
LONG-TERM TAM

- PCs are Essential & Mission Critical
  +$7B TAM growth over the past two years

- Strong Market Growth Drivers
  Commercial with hybrid workforce
  Gaming and premium consumer

- Huge Opportunity for AMD
  Sustained revenue and share growth

Based on AMD internal data.
MAINTAINING LEADERSHIP ACROSS ALL PC MARKETS

Build the Best

Deliver Leading Experiences

Deepen OEM Relationships

Driving Sustained Growth
OUR JOURNEY
INcredible Notebook Momentum

**Premium Consumer Growth**
% Share of >$800 Notebook Market

- 2019: 6%
- 2021: 23%

**Gaming Growth**
% Share of Notebook Market

- 2019: 15%
- 2021: 32%

**Commercial Growth**
% Share of >$500 Notebook Market

- 2019: 9%
- 2021: 16%

Source: IDC, Exit shares, x86 processors only
AMD NOTEBOOK FOCUS

MOBILE USES FOR MODERN LIFESTYLES

Hybrid Work Environment
Anywhere Gaming
Continuous Streaming
Advanced Content Creation
Unleashed Computing

Users First, Experience Focused
AMD RYZEN™ 6000 SERIES
CONTINUED NOTEBOOK LEADERSHIP

Leading All-Around Compute Performance
1.3X Faster CPU Performance

Best Ultrathin Notebook Gaming Ever
2X More Graphics Performance

Incredible Power Efficiency
Up to 29 Hours of Battery Life

Cutting-Edge Connectivity
Wi-Fi 6E, 5G, Bluetooth 5.2 and USB4™

See endnote RMB-13, RMB-13
AMD RYZEN™ PRO 6000 SERIES NOTEBOOK

ADVANCED COMMERCIAL PROCESSORS

Ultimate Performance

- MS Office Performance while Using Teams Conferencing: +17%

Extreme Portability

- Battery Life Performance for Teams Conferencing: +45%

Built for Professionals

- Leading-edge security features for a hybrid workforce
- Wireless remote, enterprise manageability

See endnote RMP-31, RMP-32
### AMD Platform Expansion

**Partnering to Deliver the Best**

<table>
<thead>
<tr>
<th>AMD Platform Momentum</th>
<th>Premium Platforms</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2020</strong></td>
<td></td>
</tr>
<tr>
<td>185</td>
<td>Lenovo Yoga 7</td>
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<tr>
<td>117 Premium Designs</td>
<td>ROG Zephyrus G14</td>
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<tr>
<td>68</td>
<td>Alienware Aurora R14</td>
</tr>
<tr>
<td><strong>2021</strong></td>
<td></td>
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<tr>
<td>261</td>
<td>HP EliteBook 845/865 G9</td>
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<tr>
<td>204 Premium Designs</td>
<td>Lenovo Thinkpad Z</td>
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<td>57</td>
<td>Razer Blade 14</td>
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<td><strong>2022</strong></td>
<td></td>
</tr>
<tr>
<td>294</td>
<td></td>
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<tr>
<td>249 Premium Designs</td>
<td></td>
</tr>
<tr>
<td>45</td>
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</tbody>
</table>

- **Deepening OEM Partnerships**
- **Driving Co-Innovation**
- **Multi-Year Roadmap Planning**
AT THE FOREFRONT OF PC INNOVATION

AI Acceleration
Adaptive computing

Image Signal Processing
Incredible image quality

Heterogeneous Architecture
Advanced scalability

Advanced Packaging
Breakthrough performance

Extreme Power Management
Even longer battery life
AMD NOTEBOOK ROADMAP

SUSTAINED PERFORMANCE LEADERSHIP

2021

7nm

7nm

6nm

6nm

4nm

“Zen 3”
“Vega”

“Zen 4”
RDNA 3
AIE

“Strix Point”
“Zen 5”
RDNA 3+
AIE

Advanced Node

Roadmaps Subject to Change
AMD DESKTOP FOCUS
DELIVERING ULTIMATE USER EXPERIENCES

- Pushing the envelope for gamers
- Unleashed performance for enthusiasts
- Extreme workstation workloads
AMD RYZEN™ 7000 SERIES
THE NEXT FRONTIER FOR DESKTOPS

Fastest Desktop Processor
>5.5 GHz Clock Speed
~8% IPC Uplift in Desktop Workloads
>15% Single-Thread Uplift

The Most Efficient Desktop Processor
>25% More Performance-Per-Watt

All New AM5 Socket Platform
More Performance and Faster Data Access

See endnote RPL-001, Z4-001, Z4-003
AMD THREADRIPPER™ PRO EXPANSION

WORKSTATION LEADERSHIP

Performance Leadership

<table>
<thead>
<tr>
<th>Feature</th>
<th>Intel® Xeon® 2X Platinum 8280</th>
<th>AMD Threadripper™ PRO CPU 5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Thread</td>
<td>+43%</td>
<td>+95%</td>
</tr>
<tr>
<td>Multi Thread</td>
<td>+51%</td>
<td></td>
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<tr>
<td>Storage</td>
<td>+138%</td>
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<tr>
<td>Performance to Power Ratio</td>
<td>+100%</td>
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</tbody>
</table>

Portfolio Growth

Lenovo

See endnote CGP-40, CGP-30, CGP-29, CGP-24
All roadmaps are subject to change.
OUR PATH FORWARD

SUSTAINED GROWTH ACROSS PC MARKETS

- **Execute** strong roadmap
- **Deliver** the best user experiences
- **Deepen** OEM relationships
ENDNOTES

- GD-150: Max boost for AMD Ryzen processors is the maximum frequency achievable by a single core on the processor running a bursty single-threaded workload. Max boost will vary based on several factors, including, but not limited to: thermal paste; system cooling; motherboard design and BIOS; the latest AMD chipset driver; and the latest OS updates.

- GD-168-A: Based on testing by AMD Labs as of 4/11/22. Battery life evaluated in hours of continuous 1080p local video playback with a premium laptop configured with an AMD Ryzen 7 PRO 6850U processor. 76 Whr battery. 150 nit screen brightness. Actual battery life will vary based on several factors, including, but not limited to: product configuration and usage, software operating conditions, wireless functionality, power management settings, screen brightness and other factors. The maximum capacity of the battery will naturally decrease with time and use.


- RMP-31: Based on testing by AMD as of 4/1/22. Productivity performance evaluated with simultaneous operation of nine-participant Microsoft Teams video conferences using the UL Procyon Office Productivity benchmark. System configuration for Intel® Core™ i7-1260P CPU/GPU performance: Lenovo ThinkPad X1 Carbon, Intel Iris Xe Graphics, 2X8 GB RAM (LPDDR5-5500), 1TB SSD, BIOS version N3AET45W (1.10), Windows 11 Pro. System configuration for Ryzen™ 7 PRO 6860Z: Lenovo ThinkPad Z13, 2x16GB LPDDR5-6400, Windows 11 Pro, 1TB SSD, AMD Radeon 680M graphics, GPU driver 30.0, BIOS N3GET12WE (0.12). Performance may vary.

- RMP-32: Based on testing by AMD as of 4/1/22. Battery life evaluated in hours using a nine-participant Microsoft Teams video conference with camera on, 200 nit brightness, slider position AC#2 (Balanced), with 95% utilization. Battery life results normalized for battery capacity differences. System configuration for Intel® Core™ i7-1260P CPU/GPU performance: Lenovo ThinkPad X1 Carbon, 57-watt hour battery, Intel Iris Xe Graphics, 2X8 GB RAM (LPDDR5-5500), 1TB SSD, BIOS version N3AET45W (1.10), Windows 11 Pro. System configuration for Ryzen™ 7 PRO 6860Z: Lenovo ThinkPad Z13, 50-watt hour battery, 2x16GB LPDDR5-6400, Windows 11 Pro, 1TB SSD, AMD Radeon 680M graphics, GPU driver 30.0, BIOS N3GET12WE (0.12). Actual battery life will vary based on several factors, including, but not limited to: product configuration and usage, software, operating conditions, wireless functionality, power management settings, screen brightness, and other factors. The maximum capacity of the battery will naturally decrease with time and use.

- RMP-39: Based on testing by AMD Labs as of 4/11/22. Battery life evaluated in hours of continuous 1080p local video playback with a HP Elitebook 865 G9 configured with an AMD Ryzen 7 PRO 6850U processor with Radeon 680M graphics. 76 Whr battery, 150 nit screen brightness, 256GB HDD, 8GB memory, Win 10 Pro, video resolution of 1920 x 1200 x 60 Hz and the power slider set to “better battery.” Actual battery life will vary based on several factors, including, but not limited to: product configuration and usage, software, operating conditions, wireless functionality, power management settings, screen brightness and other factors. The maximum capacity of the battery will naturally decrease with time and use.

ENDNOTES

- CPG-04: Based on AMD performance lab testing as of January 31, 2022, using Chaos V-Ray, PugetBench for Adobe After Effects, PugetBench for Davinci Resolve, SPECapc® for Maya 2017 CPU Composite metric, SPECapc® for Maya 2017 Graphics Interactive Composite, Cinebench 1T, Cinebench NT, Chromium Compilation, Unreal Engine Compilation, Cadalyst AutoCAD 3D Graphics, Cadalyst AutoCAD CPU, Ansys CFX Pump, Ansys CFX LeMans Car and Keyset benchmarks to compare the performance of an AMD Ryzen Threadripper 5995WX reference system configured with 8x32GB DDR4, NVIDIA Quadro RTX A5000, 1TB SSD. Win 11 vs. a similarly configured BOXX APEXX4 workstation with two Intel® Xeon® Platinum 8280 processors. Results may vary.

- CPG-24: Based on internal AMD analysis of benchmarks as of January 31, 2022, evaluating the V-Ray rendering performance and TDP of an AMD Ryzen Threadripper Pro 5995WX reference system (280W) configured with 8x32GB DDR4, NVIDIA Quadro RTX A5000, 1TB SSD, Win 11 vs. a similarly configured BOXX APEXX4 workstation with two Intel® Xeon® W-8280 server processors (410W). Results may vary. CPG-24

- CPG-29: Based on AMD Labs testing as of January 31, 2022 using the Crystal Disk Mark 8 benchmark, to compare the PCIe® storage performance of a Ryzen Threadripper PRO 5995WX reference system configured with 8x32GB DDR4, NVIDIA Quadro RTX A5000, 1TB SSD. Win 11 vs. a similarly configured BOXX APEXX4 workstation with 2X Intel® Xeon® W-8280 processor.

- CPG-30: Based on AMD performance lab testing on January 31, 2022, using the SPECapc® for Maya 2017 Graphics Interactive Composite metric to compare graphics performance of (5) AMD Ryzen™ Threadripper™ PRO 5000WX-Series reference systems configured with 8x32GB DDR4, NVIDIA Quadro RTX A5000, 1TB SSD. Win 11 vs. (5) similarly configured BOXX APEXX4 workstations with Intel® Xeon® W-3300 series processors. Results may vary.

- Z4-001: IPC uplift based on the average of estimated/published 2017 SPECint® and 2017 SPECfp® scores and internal estimates/testing on Cinebench R23 1T and Geekbench 5 1T for “Zen4” and “Zen 3” processors.

- Z4-003: Testing as of May 31, 2022, by AMD Performance Labs. Power measured at CPU socket only (Watts), CPU performance (“points”) measured with Cinebench R23 nT. AMD Ryzen 9 5950X System: AMD Reference X570 Motherboard, 2x8 DDR4-3200, AMD Ryzen 7000 Series: AMD Reference X670 Motherboard. Ryzen 7000 Series 16-core pre-production processor sample. 32GB DDR5-5200. All systems configured with Radeon™ RX 6950XT GPU (driver: 22.10 Prime), Windows 11 Build 22000.593, Samsung 980 Pro 1TB SSD, Asetek 280MM liquid cooler. Results may vary when final products are released in market.