SAFE HARBOR STATEMENT

This document contains forward-looking statements. The words “believe,” “may,” “will,” “potentially,” “estimate,” “continue,” “anticipate,” “intend,” “could,” “would,” “project,” “plan,” “expect” and similar expressions that convey uncertainty of future events or outcomes are intended to identify forward-looking statements. Forward-looking statements may address the following subjects among others: the status of filter designs under development, the prospects for licensing filter designs upon completion of development, plans for other filter designs not currently in development, potential customers for our designs, the timing and amount of future royalty streams, the expected duration of our capital resources, our hiring plans, the impact of our designs on the mobile device market, and our business strategy. Forward-looking statements are inherently subject to risks and uncertainties which could cause actual results to differ materially from those in the forward-looking statements, including, without limitation, the following: our limited operating history; our ability to complete designs that meet customer specifications; the ability of our customers (or their manufacturers) to fabricate our designs in commercial quantities; the ability of our customers to sell products incorporating our designs to OEMs; our dependence on a small number of customers; the ability of our designs to significantly lower costs as compared to other designs and solutions; the risk that the intense competition and rapid technological change in our industry renders our designs less useful or obsolete; our ability to find, recruit and retain the highly skilled personnel required for our design process in sufficient numbers to support our growth; our ability to manage growth; and general market, economic and business conditions. Additional factors that could cause actual results to differ materially from those anticipated by our forward-looking statements are under the captions “Risk Factors” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in our most recent Annual Report (Form 10-K) or Quarterly Report (Form 10-Q) filed with the Securities and Exchange Commission. Forward-looking statements are made as of the date of this document, and we expressly disclaim any obligation or undertaking to update forward-looking statements.

We may refer to information regarding potential markets for products and other industry data. We believe that all such information has been obtained from reliable sources that are customarily relied upon by companies in our industry. However, we have not independently verified any such information.
POSITIONED FOR LONG-TERM GROWTH
Continued acceleration and execution of strategic priorities

EXPANDED XBAR® AGREEMENT WITH WORLD’S LARGEST RF FILTER MANUFACTURER

- Increased number of bands to be developed from 4 to 8
- Increased average price per band for additional 4 devices by up to 400% for most complex designs
- Continued focus on commercialization of first four devices

OPERATIONAL HIGHLIGHTS

- Strategic partner’s exclusive rights to XBAR® for mobile ends March 2022
- Patent portfolio grew to >390 patents filed or issued, >240 of which are related XBAR®
- Continued legacy customer successes provide roadmap for future XBAR® engagements

Q3 2021 HIGHLIGHTS

Value of Expanded Agreement

$17M - $43M
(Potential revenue for Resonant)

Q3 Unit Volumes Ramped to

21M+
(~433% increase YoY)

Unit Volumes Shipped To-Date

100M+
(production volumes)
XBAR® ADDRESSES REQUIREMENTS OF NEXT-GEN NETWORKS

**5G WAVE 1**
- Low 5G Traffic
- Insignificant Interference
- Light Filter Requirements

**5G WAVE 2**
- Substantial 5G traffic
- Significant Interference Problems
- Demanding Filter Requirements

**TODAY’S 5G**

**MARKET DEMANDS MORE ADVANCED FILTERS**

**TIME**
- **WAVE 1**: 2022
  - Underwhelming speeds & less infrastructure
- **WAVE 2**: 2025
  - 5G capacity & speed increases
- **WAVE 3**: 2025
  - Extreme speed & capacity increases
Natively meets the requirements of 5G & Wi-Fi 6E with significantly lower cost

Legacy 4G filter technology, extended to attempt to meet next-gen requirements

Advanced filter technology designed to meet next-gen requirements

**XBAR® SOLVES ISSUES THAT CHALLENGE EXISTING BAW SOLUTIONS**

**SCANDIUM DOPED – ScAlN BAW SOLUTION**

$$$$ Requires sub-banding or selective “notches”, increasing cost, area, and loss

**Multi-Band Switching Approach**

**Hybrid Approach**

Non acoustic LC bandpass filter

Acoustic Notch BAW Filter

**Full Band Approach**

**XBAR® SOLUTION**

$ Natively meets the requirements of 5G & Wi-Fi 6E with significantly lower cost
UNIQUELY POSITIONED IN A BOOMING MARKET

Pure-play business model

Enabling the Largest RF Filter Manufacturers

- Murata 36%
- WISOL 13%
- Qualcomm 12%
- Skyworks 14%
- Broadcom 9%
- Qorvo 7%
- TAIYOYUDEN 5%
- Others 4%

Source: Navian

Our work with the world’s largest filter manufacturer

Expanded agreement to include an additional four bands, increasing total number of bands to be designed to eight

Technical Milestones Achieved:
- ✓ Target performance
- ✓ Packaging
- ✓ Initial reliability

Represents potential $100M+ annual market opportunity for Resonant

Source: Navian
CAPITALIZING ON THE EMERGING ‘NON-MOBILE’ SEGMENT

XBAR® meets the requirements of next-gen Wi-Fi

Non-mobile RF filter segment expected to be comparable in size of the 5G mobile segment

Growth driven by large bandwidth and the upgraded technologies of Wi-Fi 6
INNOVATIVE FILTER DESIGN WITH INDUSTRY-LEADING
WaveX™ DESIGN SOFTWARE PLATFORM

TRADITIONAL APPROACH
TIME CONSUMING, ITERATIVE DEVELOPMENT PROCESS WITH MONTHS/YEARS OF LEAD TIME

WaveX™ DESIGN PLATFORM
NIMBLE SOLUTION, SUPERIOR PERFORMANCE WITH 2X FASTER TIME-TO-MARKET
RAPIDLY GROWING IP PORTFOLIO

Focus on Accelerating XBAR® Patents

Filed Applications or Issued Patents – U.S. and Foreign
FINANCIAL SUMMARY

Strong balance sheet and accelerated billings

<table>
<thead>
<tr>
<th>($ thousands, except share data)</th>
<th>September 30, 2021</th>
<th>September 30, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Billings</td>
<td>$4,104</td>
<td>$2,707</td>
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<tr>
<td>Deferred Revenues</td>
<td>$4,446</td>
<td>$2,378</td>
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<tr>
<td><strong>REVENUES</strong></td>
<td>$425</td>
<td>$1,405</td>
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<tr>
<td><strong>OPERATING EXPENSES</strong></td>
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<tr>
<td>Research and development</td>
<td>$5,857</td>
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<tr>
<td>Sales, marketing and administration</td>
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<td>$3,055</td>
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<tr>
<td><strong>TOTAL OPERATING EXPENSES</strong></td>
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<td>$7,468</td>
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<tr>
<td><strong>NET OPERATING LOSS</strong></td>
<td>-8,979</td>
<td>-6,063</td>
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<tr>
<td><strong>NET LOSS</strong></td>
<td>-$8,984</td>
<td>-$6,063</td>
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<tr>
<td>NET LOSS PER SHARE — BASIC AND DILUTED</td>
<td>$ (0.14)</td>
<td>$ (0.11)</td>
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<tr>
<td>Weighted average shares outstanding — basic and diluted</td>
<td>63,087,230</td>
<td>53,243,854</td>
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<tr>
<td>Adjusted EBITDA - Non-GAAP</td>
<td>-$6,824</td>
<td>-$4,353</td>
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<tr>
<td>Net EBITDA Per Share - Basic and Diluted</td>
<td>$ (0.11)</td>
<td>$ (0.08)</td>
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**Balance Sheet Information**

<table>
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<tr>
<th></th>
<th>September 30, 2021</th>
<th>September 30, 2020</th>
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</thead>
<tbody>
<tr>
<td>Cash and Cash Equivalents</td>
<td>$15,346</td>
<td>$20,123</td>
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<tr>
<td>Debt</td>
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Q3 2021 Earnings Presentation (NASDAQ: RESN) | 10
REVENUES POISED FOR GROWTH

Expecting significant growth in 2022

Revenues

Large Milestone Payment from Strategic Partner
Q4 2021 & 2022 KEY MILESTONES

- Significant growth in 2022 over 2021
- Legacy programs will expand into XBAR® based relationships
- Continue to build a high-volume manufacturing platform for XBAR® filters
- Secure a contract focused on XBAR® for non-mobile applications
KEY TAKEAWAYS

ESSENTIAL 5G TECHNOLOGY
- XBAR® technology is THE ONLY technology that has showcased the ability to innately meet the complex requirements of “True” 5G applications

ROBUST TECHNOLOGY AND IP
- >390 patents filed or issued and >240 for high-frequency 5G-targeted devices

PROVEN MANAGEMENT TEAM
- Leadership team that has a proven ability to deliver to shareholders, billions in transaction value

LARGE AND GROWING MARKET
- Targeting largest segment of the RF Front-End market (growing to $26B in 2023). Filters are expected to grow almost 67% to $15B by 2023 (Source: Navian)

TECHNOLOGY VALIDATED
- XBAR® poised for commercialization in strategic partnership with world’s largest RF filter manufacturer (bigger than the 2nd and 3rd players combined)

ESTABLISHED FOUNDRY PROGRAM
- Business model that significantly expands the filter market by allowing component suppliers ease of entry at low cost (first of its kind program)

STRONG BALANCE SHEET
- Ample cash balance, no debt

BETTER, CHEAPER & FASTER
- Our WaveXTM design platform enables us to create filter designs that save money, resources & time, while solving complex challenges that are otherwise not possible