#### Safe Harbor Statement and Non-GAAP and Forecast Information

This document includes "forward-looking statements," as that term is defined in Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. All statements, other than statements of historical facts, included or incorporated in this document could be deemed forward-looking statements, particularly statements about the future financial performance of onsemi, including financial guidance for the fourth quarter of 2024. Forward-looking statements are often characterized by the use of words such as "believes," "estimates," "expects," "projects," "may," "will," "intends," "plans," "anticipates," "should" or similar expressions or by discussions of strategy, plans or intentions. All forward-looking statements in this document are made based on our current expectations, forecasts, estimates and assumptions and involve risks, uncertainties and other factors that could cause results or events to differ materially from those expressed in the forward-looking statements. Certain factors that could affect our future results or events are described under Part I, Item 1A "Risk Factors" in the 2023 Annual Report on Form 10-K filed with the Securities and Exchange Commission (the "SEC") on February 5, 2024 (the "2023 Form 10-K") and from time to time in our other SEC reports. You are cautioned not to place undue reliance on forward-looking statements. We assume no obligation to update such information, which speaks only as of the date made, except as may be required by law. Investing in our securities involves a high degree of risk and uncertainty, and you should carefully consider the trends, risks and uncertainties described in this document, our 2023 Form 10-K and other reports filed with or furnished to the SEC before making any investment decision with respect to our securities. If any of these trends, risks or uncertainties actually occurs or continues, our business, financial condition or operating results could be materially adversely affected, the trading prices of our securities could decline, and you could lose all or part of your investment. All forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by this cautionary statement.

This presentation include certain non-GAAP financial measures. Reconciliations of these non-GAAP financial measures to the most directly comparable measures under GAAP are included in our earnings release, which is posted separately on our website in the "Investor Relations" section.

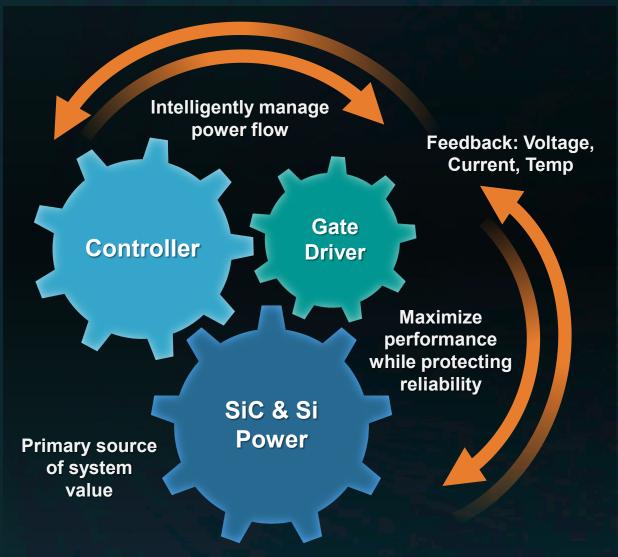




### Winning at the Core

#### INTELLIGENT POWER Energy USTRIAL MARKEY Infrastructure Vehicles Fy Sustainable **Ecosystem** Charging 9-≎ INTELLIGENT POWER 5G Cloud Power EN SiC & Si **Image** Power Sensor 'NTELLIGENT SENSING

### **Expanding** from the Core



# onsemi Aligns Business Groups to Expand Product Portfolio and Accelerate Growth

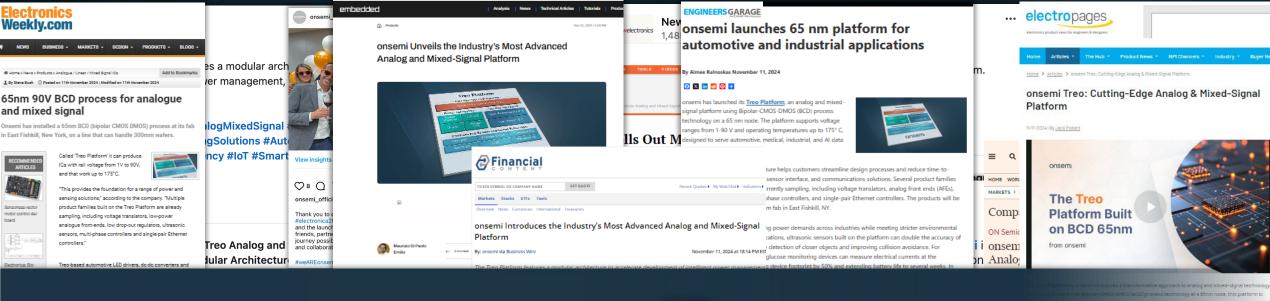
March 12, 2024

Analog and Mixed-Signal Group (AMG)

Delivering an analog and mixed-signal portfolio that solves our customers' most critical system-level power and sensing problems

AMG provides a suite of novel technologies to optimize next-generation solutions with high efficiency, advanced integration, and industry best-in-class performance for Automotive, Industrial, and Al Data Center





# onsemi



### November 11, 2024:

#### onsemi Enters the High Performance Analog & Mixed Signal Market with Treo



The Treo Platform features a modular architecture that will enable a simpler design process for customers, reduce systems costs and achieve faster time-to-market for their solutions. (Graphic: Business Wire)

hese industries are requiring greater perfor. The importance of th

ses industries are requiring greaser perfor. The Treo Piatform features a modular architecture that will enable a mer devices such as medical wearables are. Simpler design process for customers, reduce systems costs and t

such as medical wearables are becoming more sophisticated, requiring more intelligence and better efficiency to improve personal care and reduce device costs. This creates the need for

hly integrated, advanced power and sensing solutions capable of delivering greate ultaneously delivering greater energy efficiency across the entire power spectrum

is, while supporting the industry's industry
in case achieve significant improvements in The Treo Platform is uniquely positioned to address these growing needs offering superior performance and
smeart in function, safety and overall quall
features, while supporting the industry's widest voltage range on a leading node. Products built on the Treo
immore, high-performance ulmasant case Platform can achieve significant improvements in accuracy, performance and efficiency that result in an
saccordiscribed are much closer on the x improvement in function, safety and overall quality of life. For example:

- near objects ar closer distances, the park at one overall starte by helping drivers and and an automotive, high-performance ultrasonic sensors can improve accuracy by a factor of two, meaning the aithcare, ultra-lom-power Analog Front Er of the control securation measure very small electric objects that are much closer to the vehicle than before in park assist applications. With the ability to detect objects at closer distances, the park assist system can provide better collision avoidance issue is trusted for executing the driving sparal source overall safety by helping drivers avoid obstacles more effectively when parking.
- In healthcare, ultra-low-power Analog From Ends (AFEs) for continuous glucose monitoring (CGM) devices under foegorist in hair and extend the bears in the smaller and more comfortable for the piece. In the second propose of the piece, the second propose of the piece of the piec

Semi. 

12th November 2024

☐ Electronic Specifier

☐ Harry Fowle

eo Platform at electronica 2024, its most advanced analog and mixed-signal

w platform, Electronic Specifier's Harry Fowle spoke with Koel Appeltans, Director of tecture at onsemi, about all the highlights.

Meet the Treo Platform

- Diverse Product Compatibility: Multiple product families are already sampling, including voltage translators, ultralow-power AFES, LDGs, ultrasonic sensors, and multi-phase controllers, demonstrating the platforms adaptability across sectors.
- across sectors.

  Advanced Manufacturing: All Treo Platform products are produced at onsemits 300mm fab in East Fishkill, NY



features a modular architecture that will enable a simpler design process for systems costs and achieve faster time-to-market for their solutions. Wire)

roday's increasing power demands in automotive, industrial, and AI data arallel with stricter environmental regulations are driving a need for greater the same time these industries are requiring greater performance and lapplications. Additionally, low power devices such as medical wearables are shisticated, requiring more intelligence and better afficiency to improve

### onsemi Delivers Disruptive Platform

onsemi enters High Perf. Analog & Mixed Signal market

Leapfrogging the competition with market leading technology

Competitive Advantage

Unprecedented level of integration through a combination of proprietary BCD65nm process in a 300mm EFK fab with an SoC-like approach

Large TAM with attractive GM

Expanding into \$36B TAM
Targeting revenue of \$1B by 2030
Gross margin up to 70%



Power Management ICs

\$15.6B TAM 10.8% CAGR

Sensor Interfaces \$3.8B TAM 7.2% CAGR

Comms Devices \$1.2B TAM 3.5% CAGR Unlocking a total \$36B TAM at up to 70% Gross Margin

**ASSPs** 

\$15.7B TAM 6.1% CAGR

**Automotive** 

Industrial

**Al Data Center** 



# The industry's most advanced analog and mixed-signal platform for intelligent power and sensing solutions



#### **Best of All Worlds**

#### **Unprecedented 65nm BCD process:**

- 1. <u>B</u>ipolar Transistors: Best Analog
- 2. <u>C</u>MOS: Digital Processing
- 3. <u>D</u>MOS: High voltage, power

Broadest voltage range: 1 – 90V Up to 175°C & Automotive Grade 0



# **Branches of Product Families**

Foundation for a suite of next-gen power management ICs, sensor interfaces, communication devices and ASSPs



# High Performance with Agility

Accelerated development cycle reduces time-to-market to deliver highly differentiated products with best-in-class feature sets and performance



Competitive

**Platforms** 

### A Step Above the Industry

# onsemi. Treo

#### **High Voltage**

Automotive, Industrial

**Medium Voltage** 

Automotive, Cloud Competitive Platforms

> Competitive Platforms

## Unique Combination:

+ Widest Voltage Range

**Advanced Node** 

+

Highest Temp. Operation

Competitive Platforms

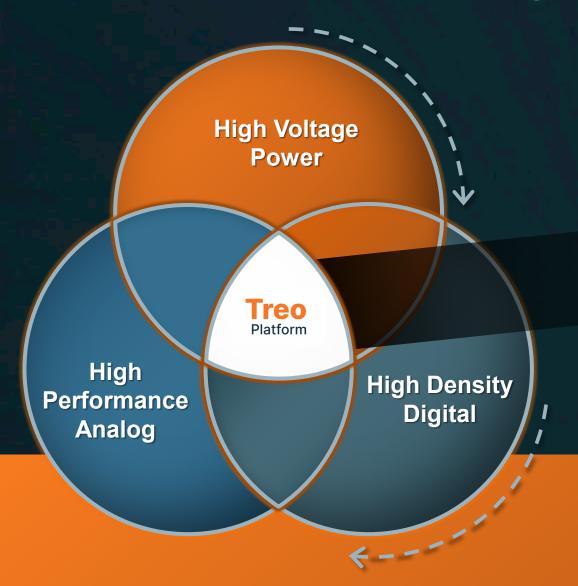
### Low Voltage Consumer

Larger Node: Less performance, Features **Platform Technology** 

Advanced Node: Higher performance, Features



### The Most Advanced Analog Mixed Signal Technology on Market





Unique Combination
65nm BCD Process
Voltage Range 1-90V,
Optimized Analog Transistors

onsemi is the only player to offer the best of all worlds – High Performance Analog, High Density Digital, and High Voltage





### Value Proposition for Next-Generation Analog and Mixed-Signal Solutions

#### **Feature**

Broadest Voltage Range: 1 – 90V

Modular, SoC-like Architecture

**Precision Analog** 

Embedded Intelligence

High Efficiency & Low Power

High Temperature & Auto Grade 0

#### **Why it Matters**

Ability to integrate subsystems across a range of voltages into one silicon solution

Fast time-to-market from accelerated development cycle

Higher accuracy, Increased safety

Configurable products with advanced features

Reduced power losses leading to lower TCO, Extended battery life

Increased system robustness and reliability

#### **Example**

Automotive Ethernet: Reduce two chips (separate HV and LV) to single chip

Specification to Silicon in 6-9 months

Park Assist: Improve Ultrasonic sensing accuracy by 2x

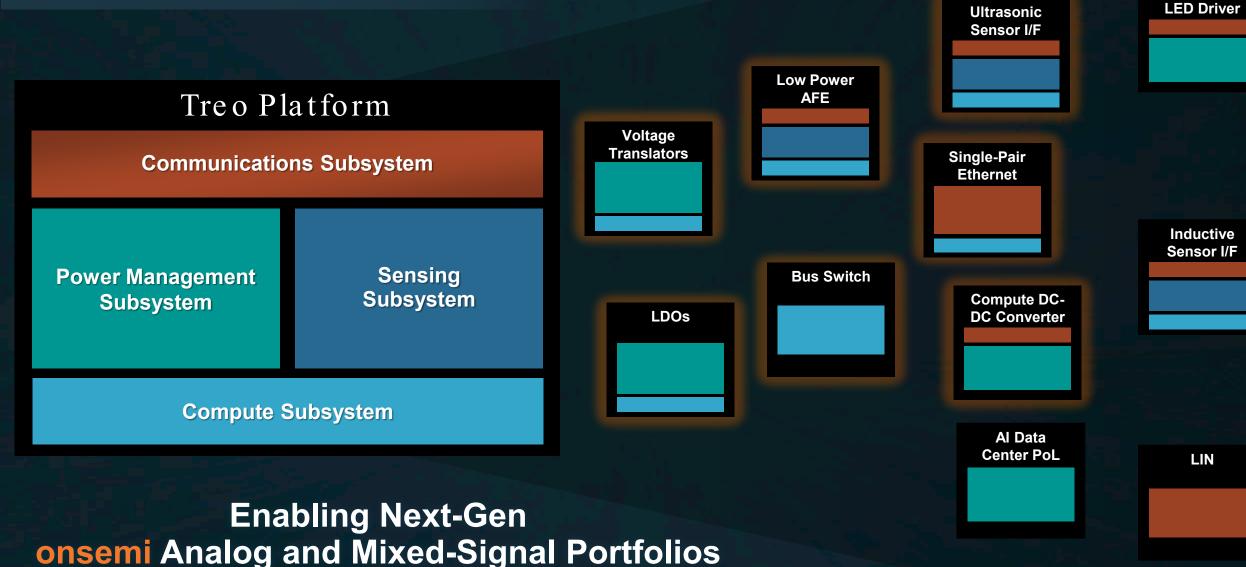
Inductive Sensing: Real-time position detection 10x more accurate than peers

Al Data Center: Smart Power Stages increase efficiency

CGM: Days → Weeks Usable Life

Meets most rigorous customer requirements





**Automotive** 



# Targeting \$1B in Revenue From Treo by 2030

Selectively target markets and applications to rapidly grow revenue with industry leading technology platform

Key Target Markets

Gain share through accelerated development cycles to address new and rapidly evolving markets

Leverage broader power portfolio to grow revenue by offering complete solutions



### Treo Drives Gross Margin Expansion



Result of two years investment in high value, differentiated products

First Revenue in 1H2025 Sampling 10 products now, will double SKUs by mid-2025

Treo delivers disruptive, high value platform with up to 70% gross margin

Expanding margins with Treo platform replacing existing sunsetting products over multiple years

Leveraging previous brownfield investments in 300mm fab and back-end facilities leading to best-in-class ROIC



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Intelligent Technology. Better Future.

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