
TGAN
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Leading the GaN Revolution
Fiscal Q2’23 Investor Update
November 9th, 2022 I NASDAQ: TGAN

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Key Investment Highlights

GaN Power Semiconductor Pioneer and Leader

Disruptive Technology

GaN Enables Next Generation Power Conversion Solutions – 99% Efficiency[1], 50% More Compact/Lightweight, Lower System Cost

Large Market Opportunity

Transphorm's GaN Solutions will Enable the Future of Electric Vehicles and Fast-charging for 5G – Contributing to GaN TAM growing to $6B[2] in 2026

Validation From Blue Chip Partners and Customers

Including KKR, SAS, Nexperia, Yaskawa, Marelli, Microchip, Diodes and the U.S. DoD(Navy), DOE

Ramping Commercially with Strong Manufacturing Base

Technology and Product Development completed, Integrated Manufacturing, $24.1M FY-22 Revenues, Target >50% LT CAGR

Best-In-Class Differentiated GaN Technology + Industry's Strongest IP Position

IP Portfolio Appraised in Excess of $200M[3]
Leader in Quality + Reliability, > 80 Billion Field hours, Silicon-like Reliability[4]
TGAN FET: Higher performance, easy interface, multiple packages

Team Led by World-Renowned GaN Experts

Proven Leadership, 18 PhDs and Over 300 Years of GaN Expertise, Recent expansion with Industry leaders

1 Measured TGAN >99% efficient power stages, commercial implementations
2 See slide 10 on GaN TAM Analysis
3 2021 Analysis done for GaN portfolio using Intracom Group Intellectual Property Solutions' patent valuation models based on 27 independent criteria, value consists of Transphorm's owned or exclusively licensed patents (non-exclusive patents not included)
4 Based on field performance, low power and high power GaN, FIT (Failure in Time) < 0.2 per Billion hours

One Core Platform, Crossing the Power Spectrum

Targeting $3B Power Market Opportunity in 2023, Upside from EV Powertrain 2025+

End Customers in Production with TPH GaN– 45W to 4 kW

- **Fast charging**
- **Lower thermals/ smaller form factor**
- **Lower system cost**

- **Proven ability to double available power in standardized server/5G telecom form factors**
- **Enable Titanium-class efficiency EU requirement**

- **Reduces size/weight of systems**
- **More efficient charging for battery/battery-powered equipment and vehicles**

- **2W-3W-4W: Reduces size/weight of on-board chargers, converters and inverters**
- **Longer distance per charge**

TGAN Owns GaN Wafer Production Supply Chain

Asset-Light, Vertically Integrated Manufacturing Driving Innovation

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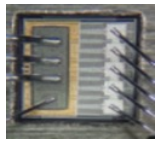

1. GaN FET design
(Safe Normally Off, Robust, High Performance, Easy to interface)

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2. Core Epi wafer starting material and manufacturing
(Multiple MOCVD Reactors, 6”, 8” capable)

Current Wafer Supply Chain in US and Japan

Transphorm (JV)

3. Wafer fab - AFSW
(GaN with Si-like yields[1])

Sub-con partners

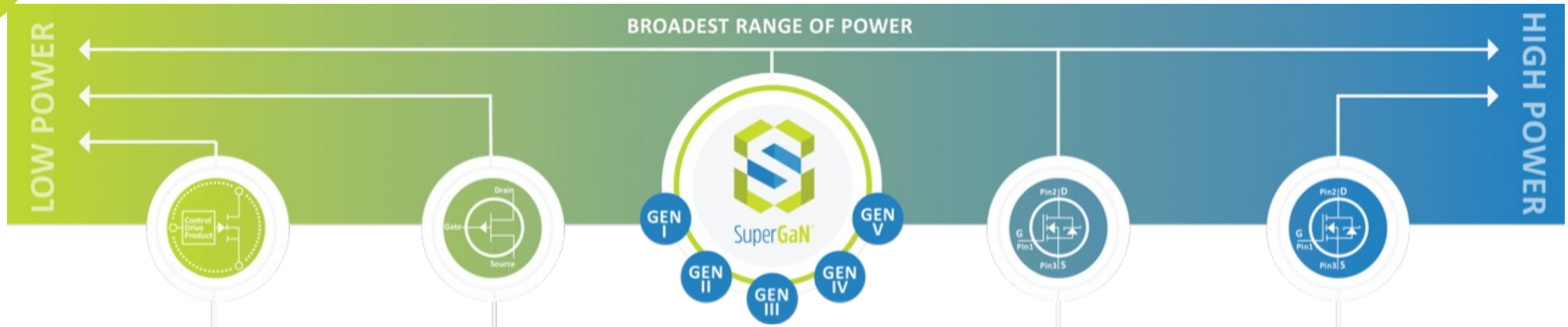
4. Packaging
(Use Multiple OSATs, with TGAN IP)

Transphorm and Partners

5. Applications-driven resources
(Easy to Design for Partners)

1) P. Parikh et. al., GaN Power Commercialization with Highest Quality-Highest Reliability 650V HEMTs- Requirements, Successes and Challenges, 2018 IEEE International Electron Devices Meeting (IEDM), Dec 2018

Competitive Landscape –TGAN FET, vs. Other GaN, SiC, Si



"IC" GaN

- Higher losses (Operating Temp)
- Only lower power offerings, no std. TO packages today
- Poor switching control[1]
- Field reliability based on low power[2]
- JEDEC qualified, 650V only
- Superior performance vs. Si

E-MODE GaN

- Higher losses (Operating Temp)
- Exposed GaN gate/input, no std. TO packages today
- Harder to design w/std. gate drivers
- Field reliability based on low power, e-mode gate weaker[2]
- JEDEC, AEC qualified, 650V only
- Superior Performance vs. Si

Transphorm GaN FET

- Superior performance – vs. other GaN, SiC and Silicon
- Best thermals – Robust Pkg
- Easy to design and use with std. gate drivers
- Most robust interface, Proven reliability in low/high power
- JEDEC + AEC-Q101 qualified,
- 650V | 900V | 1200V (R&D)

Si MOSFET

- Older technology
- Higher losses, Low power density
- Market incumbent

SiC FET/MOSFET

- Higher Power/Voltage
- Ramped in EV
- Substrate cost high, supply chain complex
- High switching losses

[1] *To provide additional device control, gate driver is sometimes removed making the "IC" a discrete solution*
[2] *Impact of OFF-state Gate Bias on Dynamic R,on of p-GaN Gate HEMT (33rd ISPSD, 2021), Currently available reliability statements based on lower power consumer applications for which failures are not typically reported.*

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TGAN FET: Higher Range, Reliability & Performance Spanning Low to High Power

Why Transphorm GaN FETs Win

- **Easy to use and drive (standard Si-like interface)**
  - "e-mode" input interface is weaker – hard to operate in widely used *TO Packages* for higher power
    - **1 GaN FET = 2 e-mode GaN** (mid-higher power)
- **Superior Dynamic performance => Efficiency**
  - Higher performance, from smaller GaN die (vs. e-mode)
    - **30-50% effective on-resistance (loss) benefit at operating Temperatures**
- **Proven reliability & manufacturing for scaled device**
  - **45W – 10 kW capable** single GaN device in production
  - AEC qualified
- **Higher power => higher energy and emissions impact,**
  - Blockchain: 120 TWH, **TGAN's 1% efficiency gain** => 1TWH + > 125 lbs of CO_2 emissions / TGAN Device[2]

In Production[1]			
Markets	**GaN e-mode or "IC"**	**GaN FET**	**Power Range TGAN Wins**
Adapters	✓	✓	30-250W
Datacenters	✗	✓	800-3200W
Gaming (Desktop)	✗	✓	1600W
Blockchain	✗	✓	1600-3600W
Industrial, Renewable (≥ 500 W)	✗	✓	500-3000W
Aerospace	✗	✓	420-1200W

1. Based on our best knowledge of released products, press release and in volume production with customers' systems
2. Based on existing rectifiers with 92% efficiency | Source: EPA estimated one kWh produces 1.52 pounds of carbon dioxide (excl. line-losses).

Customers Select Transphorm GaN – Adapters & Chargers (70+ design-ins)

30-45W Class

Wall plug – high efficiency, compact (35 W)

Compact 30 W Power Bar

60-70W Class

***New* Ultra slim, light weight (65 W)**

65 W 2C-1A

***New*, With Display (67 W)**

Compact USB-C (65 W)

Compact Power Bar, 65 W 1A-1C

65 W 2C-1A (Phihong)

90-140W Class

Quick Charge-5, USB C PD (100 W)

Compact 100 W 2C-1A

***New* 100 W 2A-2C**

120 W 2C-2A-Axial

150-250W Class

Notebook – small size, 200 kHz (160 W)

Multi out 150 W (2C-1A)

Ultra compact 240 W

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Customers Select Transphorm GaN – High Power (45+ design-ins)

Efficient, Reliable, Highest Performance, East of Drivability and Designability

"The Corsair AX1600i is the **best PSU** that money can buy today, period."

tom's HARDWARE

GaN benefit of low switching loss, 1st gaming psu with GaN in ASUS

Gaming

bel POWER SOLUTIONS & PROTECTION

80 PLUS TITANIUM

"Transphorm's GaN in a totem-pole PFC configuration proved the **most reliable**, **highest performing** solution possible today,"

Server/Computing

3 kVA UPS

>93% efficient

Smallest (2U->1U) powerful 3kVA UPS – Today, Super Gan® is the Only Technology that Can Enable this Solution"

Energy/Renewable

"Based largely on the power semiconductors' proven quality and reliability as well as the team's reputation for **successful collaboration**,"

TDK

Industrial

"We're expanding the reach of **medical care**, and Transphorm's GaN is helping us do it"

Medical

"proved to be better suited for the higher power ranges while offering the higher field reliability compared to alternatives"

3.6 kW

Blockchain

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GaN Enables Future of Next-Gen Electric Vehicles: 2W/3W/4W

EV challenges for existing Silicon-based solutions

Lower Watts / Cubic Inch

+

Power Loss

+

Heat Constraints

+

Limited Driving Distance

=

Higher Cost & Power Demand

Transphorm Gen IV
650V 35mΩ GaN FET

- **Automotive qualified (AEC) today**

- Charger / Converter / Inverters for EVs
- Earlier penetration into 2W-3W EVs (CY2023)
- Staying ahead: R&D for 1200V [1] with GaN for higher battery voltage EVs (taking on SiC higher Voltage FETs)

Faster Charging & Increased Range w/ GaN

Future of EV with GaN-based solutions

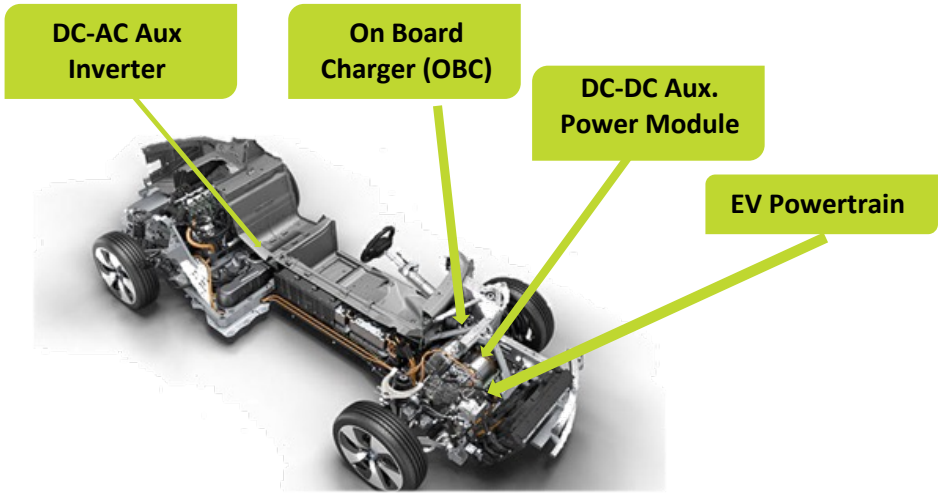
GaN-enabled Power Solution Benefits[1]:

- 2x More Watts / Cubic Inch, Faster Charging
- Less Power Loss (~20%)
- Reduced Size (~50%)
- Increased Range

1) Program Management Update: January 2016, High efficiency high-density GaN-based 6.6kW bidirectional on-board charger for PEVs DOE Award number DE-EE0006834

Accelerating Opportunity for GaN Enabled Power in EV

1. GaN Opportunities in EV, 4W



2. GaN Opportunities in EV, 2W, 3W

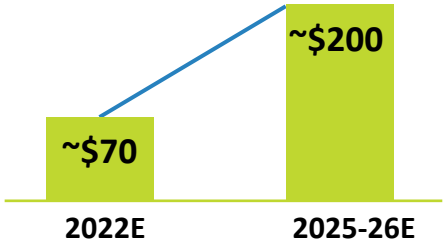
On Board Charger (OBC)

Portable Chargers

Battery Swapping

Pole Chargers

1. Addressable GaN $ Content/EV, 4W[2]



- Well-positioned for automotive opportunity with leading products, strategic partners
- EV Adoption increasing to 32 million (44 million -hyper adoption) vehicles by 2030[1]

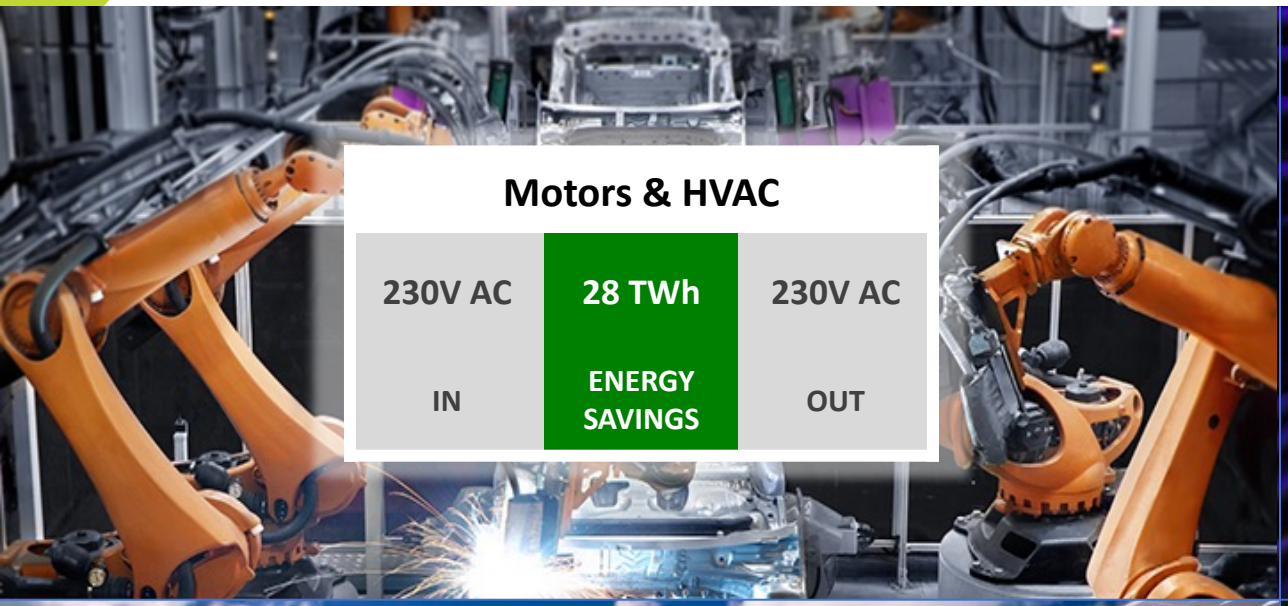
2. EV 2W, 3W Market

- TGAN FET already proven in battery-swapping
- Potential to address 75 Million 2W/3W WW (Asia dominated)[3], $8-10/vehicle

Transphorm GaN AEC-Q101 (Auto) Qualified NOW

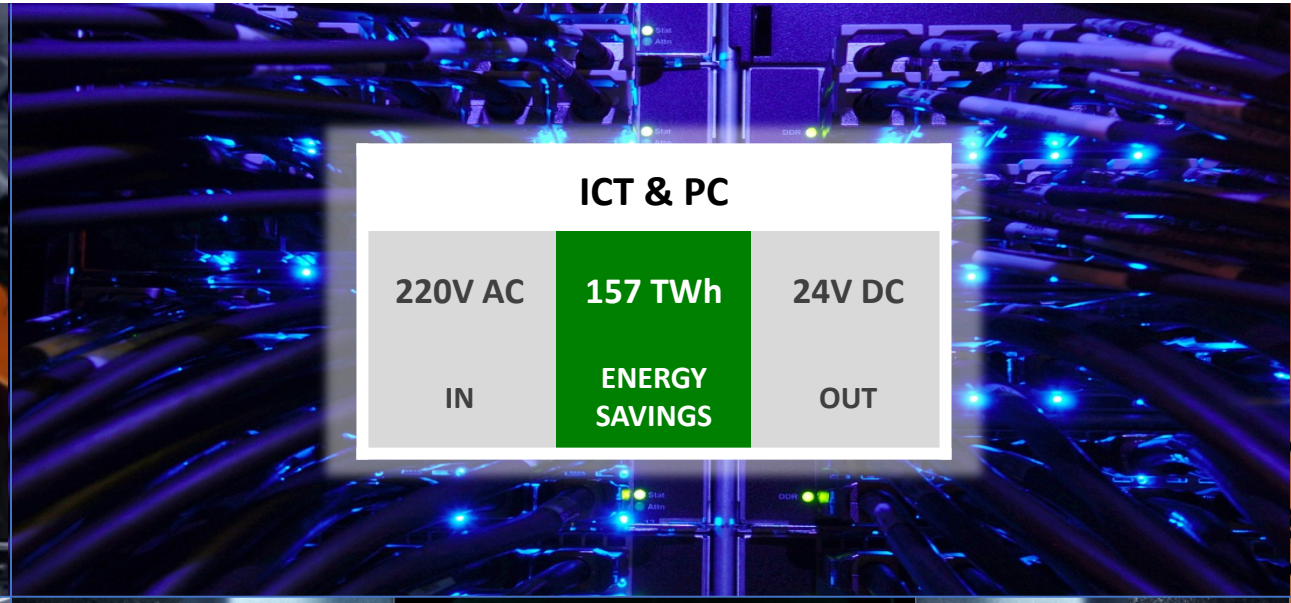
1 IHS and Goldman Sachs Global Investment Research
2 Transphorm company internal estimates, 2022 includes OBC/DCBC, 2025 includes inverter (100kw)
3 30m E-bikes in China, 30m motorcycles in Asian market potential to be EVs (Motocycledata.com, Statista)

US Energy Savings Over Next Two Decades (2041)



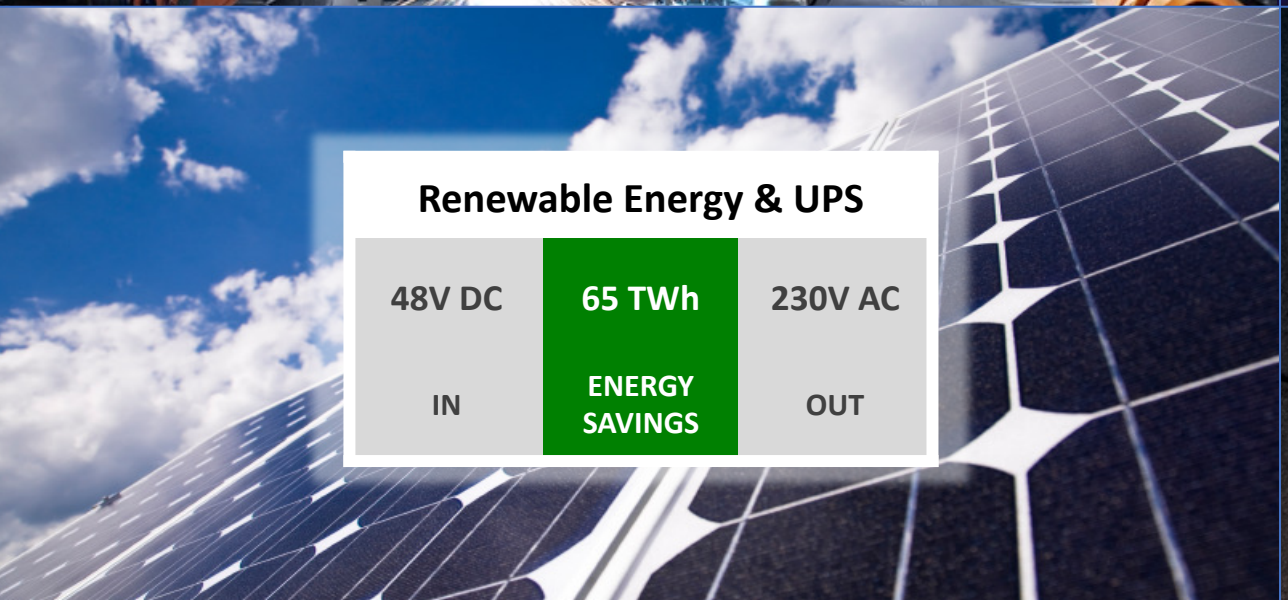
Motors & HVAC

230V AC	28 TWh	230V AC
IN	ENERGY SAVINGS	OUT



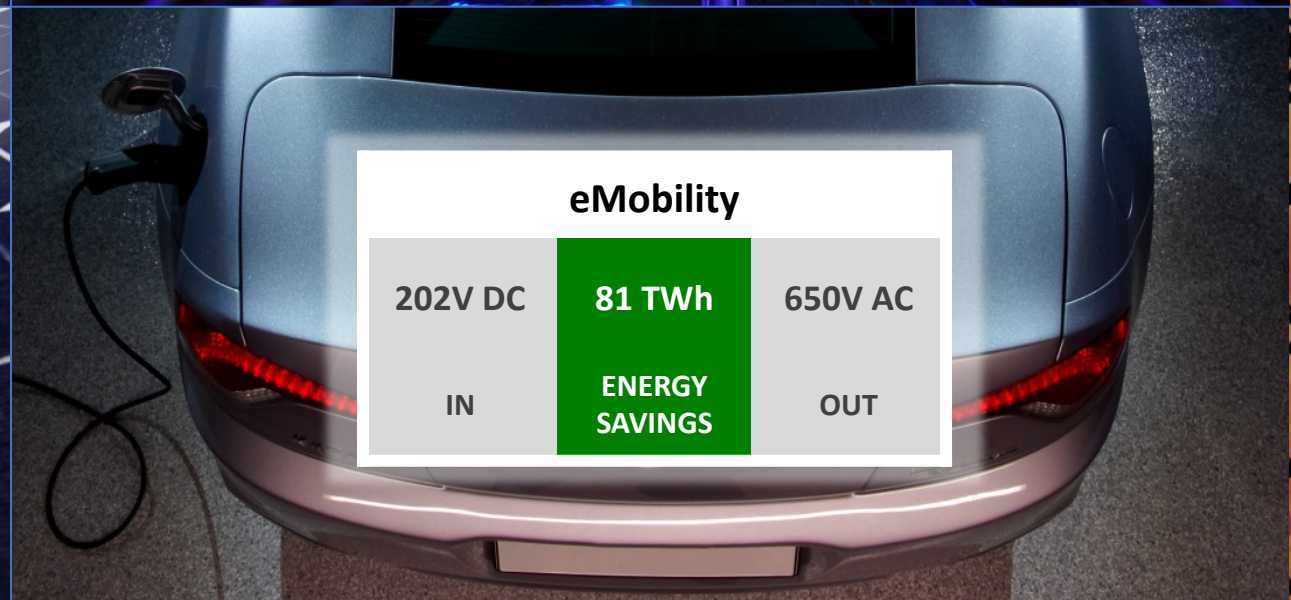
ICT & PC

220V AC	157 TWh	24V DC
IN	ENERGY SAVINGS	OUT



Renewable Energy & UPS

48V DC	65 TWh	230V AC
IN	ENERGY SAVINGS	OUT



eMobility

202V DC	81 TWh	650V AC
IN	ENERGY SAVINGS	OUT

Key Business Focus – Scaling Product Revenue

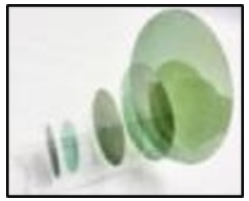
1) Capacity & Supply Chain, 2) High Power Leadership / Low Power expansion, 3) Superior new Products

Key focus area	Achieved	Comments / Upcoming
1. Revenue/Products	✓ **$3.2M Products (Total $3.7M)**	• Beat recent estimates • Aggressively pursue new demand to counter macro headwinds (several senior Sales/Marketing team added)
2. Adapters/Chargers: Design-ins, Production, Solutions (45W – 250W)	✓ **Design-Ins: 70+ (10+ new)** ✓ **In Production: 25 (3 new)** ✓ **Solutions/Ref designs: >12**	• New design win at Tier 1 Laptop • Continued POs at major Tier 1s won (Laptop, E-retailer), now shipping to a WW Top 3 Laptop manufacturer • Easy to use, no added driver, Small die vs. e-mode
3. High power: Design-Ins, Production, Ref. Designs (300W-4kW)	✓ **Design-Ins: 45+ (10+ new)** ✓ **In Production: 20+ (5 new)** ✓ **Eval kits/Ref designs: >8 (1-4kW)**	• 65% of revenue High Power • Execution on >500K units PO for 3kW+ • Expand, Penetrate new segments, Lead
4. Product SKUs and Qualification	✓ **Total: 17 (AEC qualified: 3)** ✓ **New - sampling Industry pin-pin PQFN packages complementing Performance PQFN Packages**	• Broadest offering (650/900V), • Compact surface-mount & thermally robust TOs • Continuing: Gen5 AEC qualification
5. Capacity Proof Points	✓ **Improved Japan Epi-wafer capacity** ✓ **Completed acquisition of multiple new reactors** ✓ **Packaging capacity in place (only in industry for PQFN through TO packages)**	• Continued emphasis on supply chain management • Epi Reactors – Bring existing capacity online (FY23) and new reactors online (2nd half of CY23) • Wafer Fab – Add capacity (at JV) in CY 2023

Key Business Update – Strategic Partnerships

Manufacturing Capacity Increase, Partnerships

- Acquired 2 more reactors (total 4 recently), online in second half CY-2023 (3 locations – CA, JP, TW)
- Global Wafers (Partner) – Execution for expansion in progress.
- AFSW Fab (Transphorm's JV) – Managing with GaNovation (Financial-Strategic partner) and investing for CY-2023 to be ready for increasing demand



Industrial and Automotive

- Yaskawa (Industrial) – Program aligned for cost effective innovative solutions for robotic applications
  - Focus on next funding and development milestones (Dec'22)
- Nexperia (Automotive focus) – Continued epi and fab wafer supply towards long term partnership
- Automotive: Continuing design-ins with EV, for CY 2024-25, On-Board-Charger and dc-dc Converter opportunities, initial look at drive train inverter (for 2026-2027 potential)
- Executing on initiatives in EV 2-Wheeler/3-Wheeler (Asia) for faster EV (CY2023) revenue

Transphorm's OBC Reference Solution in works

Government Revenue and Epi Business

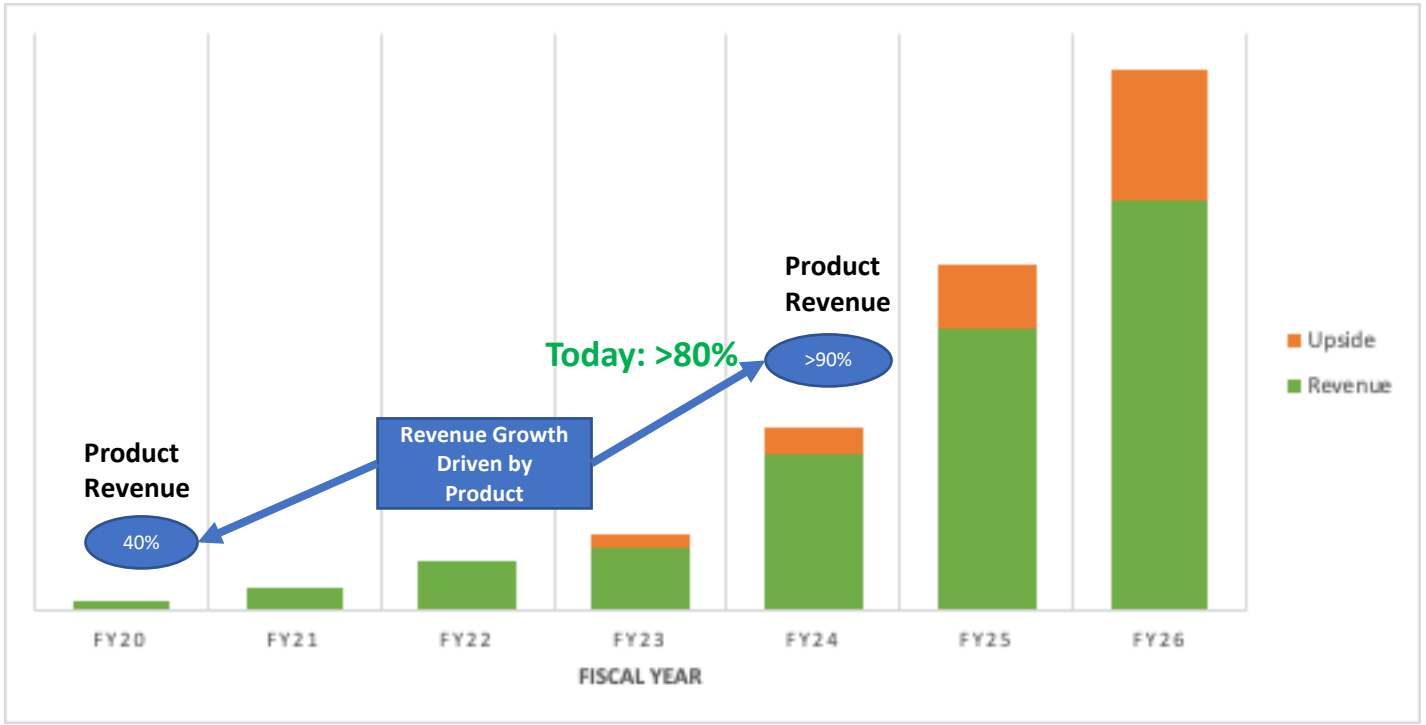
- Navy and Govt. Programs –Billing $0.5m in FQ2'23, current program wraps up in FQ3'23, and completed submission for a follow on for next 3 years (if awarded, expect in CY Q1'23. Continue 1200V effort.
- Manufacturing Funding – Continue positioning for CHIPS act funding to expand US Epiwafer manufacturing, submissions expected in CQ1'23

Key Financial Highlights

	Q2 FY23	Q1 FY23	Commentary
Revenue	**$3.7m** (>85% Product)	**$5.2m** (>85% Product)	• Growth resuming in Q3 • Total Revenue increased 11% from Q2'FY22 (excl Licensing) • Product revenue increased 38% from Q2 FY22
Gross Margin	**12%**	**21%**	• Stable direct margins Q2 vs. Q1 • GM% - indirect costs a greater drag on margins at lower revenue base in Q2, drag will reduce as revenue increases
OPEX (non-GAAP)	**$5.1m**	**$5.4m**	• Reduced G&A costs • Increased Sales/Apps headcount
EPS (non-GAAP)	**($0.09)**	**($0.08)**	• Stable EPS Q to Q
Stockholders Equity	**$36m**		• $34m cash and cash equivalents • Reduced Operational burn in Q2
Operational Notables			• Solid Backlog in place to support growth • Capital expenditure to enable larger capacity

Target Operating Model

Building a High-Growth, Product Driven Cash Generating Business



Operating Guidelines:

- **Rapid top-line growth and GaN adoption across multiple end markets**
- **OpEx for continued development of best-in-class products and IP portfolio**
- **CAPEX investment for increased scale**

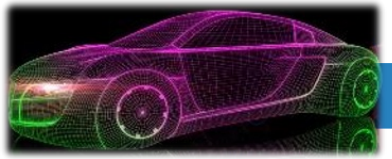
Target Model:

5-year CAGR range:	50%+
Gross Margin:	40%+
Operating Margin:	20%+
Free Cash Flow:	10%+

Excludes licensing revenue in FY20, FY21, FY22

Positioned to Grow Across Multiple Segments

5G Market Adoption



Electric Vehicle (EV) Market Adoption

Adoption / Growth	Execution and Expansion	Achieve Target Model
CY 2021-2022	CY 2023	CY 2024+
• Multiple revenue streams in place • Growing production across multiple segments • Shipped > 1M units in December 2021 • Continued investment in growth across all aspects of the company • Investing in capacity increases	• Broad market inflection point • Ramping revenue across consumer, data centers and blockchain segments • Continue to scale capacity aggressively • Initial wins in EV 2W/3W segments • Continued government contracts	• Continued momentum and broad market expansion • Automotive adoption (EV 4W) • Leader in High Power, EV, Consumer segments • Positive cash flow generation • Execute to target model

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Income Statement

Exceeded Consensus Revenue target, Reduced OPEX

	Three Months Ended			Six Months Ended	
	9/30/2022	6/30/2022	9/30/2021	9/30/2022	9/30/2021
Revenue, net	$ 3,670	$ 5,156	$ 11,303	$ 8,826	$ 14,519
Cost of goods sold	3,232	4,050	2,239	7,282	4,806
Gross profit	**438**	**1,106**	**9,064**	**1,544**	**9,713**
	12%	*21%*	*80%*	*17%*	*67%*
Operating expenses:					
Research and development	1,830	1,740	1,591	3,570	3,414
Sales and marketing	1,066	1,083	825	2,149	1,512
General and administrative	3,044	3,317	2,714	6,361	5,457
Total operating expenses	**5,940**	**6,140**	**5,130**	**12,080**	**10,383**
(Loss) income from operations	(5,502)	(5,034)	3,934	(10,536)	(670)
Interest expense	184	182	220	366	424
Loss in joint venture	684	582	1,092	1,266	2,582
Changes in fair value of promissory note	—	—	(1,629)	—	(605)
Other income, net	(375)	(445)	(1,729)	(820)	(1,999)
(Loss) income before tax expense	**(5,995)**	**(5,353)**	**5,980**	**(11,348)**	**(1,072)**
Tax expense	—	—	—	—	—
Net (loss) income	**$ (5,995)**	**$ (5,353)**	**$ 5,980**	**$ (11,348)**	**$ (1,072)**
Net loss per share - basic	**$ (0.10)**	**$ (0.10)**	**$ 0.15**	**$ (0.20)**	**$ (0.03)**

Revenue of $3.7m in Q2

- Product revenue $3.2m
- Government $0.5m
- Q2'FY22 included $8m in one-time licensing revenue

Gross Margins

- 12% in Q2 (9% decrease from PQ) due to drag from indirect costs at lower Q2 vs Q1 revenue
- Direct margin of core products stable

Operating Expenses

- Lowered OPEX - primarily G&A down due to Q1 year end procedures

Non-GAAP EPS ($0.09)

Subject to completion of review procedures

Balance Sheet

Solid Cash Position, Strong Stockholders Equity

	September 30, 2022	June 30, 2022	September 30, 2021
Assets			
Current assets:			
Cash and cash equivalents	$ 33,496	$ 42,613	$ 1,988
Restricted cash	500	500	500
Accounts receivable	1,617	3,203	1,585
Inventory	8,966	6,963	4,774
Prepaid expenses and other current assets	2,068	2,575	1,329
Total current assets	**46,647**	**55,854**	**10,176**
Property and equipment, net	5,328	2,199	1,761
Operating lease right-of-use assets	3,312	3,448	—
Goodwill	996	1,056	1,286
Intangible assets, net	469	543	765
Investment in joint venture	414	339	89
Other assets	784	291	259
Total assets	**$ 57,950**	**$ 63,730**	**$ 14,336**
Liabilities and stockholders' equity (deficit)			
Current liabilities:			
Accounts payable and accrued expenses	$ 4,492	$ 4,674	$ 4,047
Deferred revenue	263	354	607
Accrued interest	184	182	184
Accrued payroll and benefits	1,331	1,120	1,447
Operating lease liabilities	532	521	—
Revolving credit facility	12,000	12,000	—
Promissory note	—	—	15,597
Total current liabilities	**18,802**	**18,851**	**21,882**
Revolving credit facility, net of current portion	—	—	12,000
Operating lease liabilities, net of current portion	2,803	2,941	—
Total liabilities	**21,605**	**21,792**	**33,882**
Total Stockholders' equity (deficit)	**36,345**	**41,938**	**(19,546)**
Total liabilities and stockholders' equity (deficit)	**$ 57,950**	**$ 63,730**	**$ 14,336**

Notables

- Cash and cash equivalents of $34m
- Fixed assets increased – 2 reactors, other operational tools
- Inventory increased – solid backlog remains in place
- AR lower – strong collections in the period
- ASC 842 adopted in Q1 – asset/liability now on B/Sheet
- Revolving credit facility ($12m) – due FY24

Subject to completion of review procedures

GAAP to NON-GAAP Reconciliation

	Three Months Ended			Six Months Ended	
	9/30/2022	6/30/2022	9/30/2021	9/30/2022	9/30/2021
GAAP net (loss) income	$ (5,995)	$ (5,353)	$ 5,980	$ (11,348)	$ (1,072)
Adjustments:					
Stock-based compensation	636	582	511	1,218	1,008
Depreciation	165	152	134	317	257
Amortization	74	74	74	148	148
Changes in fair value of promissory note	—	—	(1,629)	—	(605)
Other income	—	—	(1,455)	—	(1,455)
Total adjustments to GAAP net (loss) income	875	808	(2,365)	1,683	(647)
Non-GAAP net (loss) income	$ (5,120)	$ (4,545)	$ 3,615	$ (9,665)	$ (1,719)
GAAP net (loss) income per share - basic	$ (0.10)	$ (0.10)	$ 0.15	$ (0.20)	$ (0.03)
Adjustment	0.01	0.02	(0.06)	0.03	(0.01)
Non-GAAP net (loss) income per share - basic	$ (0.09)	$ (0.08)	$ 0.09	$ (0.17)	$ (0.04)
GAAP net (loss) income per share - diluted	$ (0.10)	$ (0.10)	$ 0.14	$ (0.20)	$ (0.03)
Adjustment	0.01	0.02	(0.05)	0.03	(0.01)
Non-GAAP net (loss) income per share - diluted	$ (0.09)	$ (0.08)	$ 0.09	$ (0.17)	$ (0.04)

	Three Months Ended			Six Months Ended	
	9/30/2022	6/30/2022	9/30/2021	9/30/2022	9/30/2021
GAAP operating expenses	$ 5,940	$ 6,140	$ 5,130	$ 12,080	$ 10,383
Adjustments:					
Stock-based compensation	583	543	472	1,126	942
Depreciation	165	152	134	317	257
Amortization	74	74	74	148	148
Total adjustments to GAAP operating expenses	822	769	680	1,591	1,347
Non-GAAP operating expenses	$ 5,118	$ 5,371	$ 4,450	$ 10,489	$ 9,036

Subject to completion of review procedures

Non-GAAP OPEX lower in the quarter

Government, G&A (legal/audit)

SBC increased in quarter

New options approved in Q2

Depreciation slightly higher

Ongoing CAPEX investment

Fair Value adjustments

Prior converted note with Yaskawa – non-recurring

Glossary of Terms and Abbreviations

AC – alternating current
AEC-Q101 – Automotive Electronic Council's electronic components stress qualification standard
AFSW – Aizu Fujitsu Semiconductor Wafer Solution Limited, our joint venture wafer fabrication facility located in Aizu Wakamatsu, Japan
BJT – bipolar junction transistor, a semiconductor device
Bus voltage – voltage into, out of or within connections of a power electronic system
CMOS – complementary MOS (metal oxide semiconductor), widely used semiconductor transistor architecture
D2Pak – a surface mountable version of the TO220 package
DC – direct current
Die/Chip – an individual semiconductor device on the wafer, prior to packaging
EAR – Export Administration Regulation
Epi/Epiwafer/Epimaterials – GaN device layers grown on a substrate, from which active GaN-based devices are subsequently manufactured in a wafer fabrication facility
Fab – fabrication, generally referring to a semiconductor wafer fabrication facility
FET – field effect transistor, a type of switching transistor
Figure of Merit - a quantity used to characterize the performance of a device, system or method, relative to its alternatives
FIT – failure in time, referring to the expected number of device failures per billion hours of operation
GaN – gallium nitride
HEMT – high electron mobility transistor, a type of switching transistor with superior electronic properties
IGBT – insulated-gate bipolar transistor, a three-terminal power semiconductor device primarily used as an electronic switch
JEDEC – Joint Electron Device Engineering Council, an independent semiconductor engineering trade organization and standardization body that represents all areas of the electronics industry
LIDAR – light detection and ranging, a remote sensing method that uses light in the form of a pulsed laser to measure distance
Lossy – in the context of switching devices, subject to loss of power due to switching inefficiencies and other factors
MOCVD – metal organic chemical vapor deposition, a technique for layering GaN layers onto substrates such as a silicon substrate and making the starting GaN semiconductor material (i.e., an epiwafer)
Moore's law – the observation that the number of transistors in a dense integrated circuit doubles about every two years
MOSFET – metal-oxide-semiconductor field-effect transistor, a type of transistor
Normally Off – default position is off
Power converters / Inverters – electronic systems used to convert electricity from AC to DC (such as a charger), DC-AC (such as an inverter) or in some cases AC-AC or DC-DC within the systems converting from one voltage level to another
PQFN – power quad flat no lead package, a compact surface mountable package used in power semiconductors
RF – radio frequency
SCR – silicon controlled rectifier, an early semiconductor switching device
Si – silicon
SiC – silicon carbide
TO – transistor outline leaded packages commonly used in power semiconductors (such as TO220, TO247)