#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

### FORM 8-K

#### CURRENT REPORT Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): November 9, 2022

### Transphorm, Inc.

(Exact name of registrant as specified in its charter)

Delaware

(State or Other Jurisdiction of Incorporation)

000-55832 (Commission File Number) 82-1858829 (I.R.S. Employer Identification No.)

75 Castilian Drive

Goleta, CA 93117 (Address of principal executive offices, including zip code)

(805) 456-1300 (Registrant's telephone number, including area code)

Not Applicable

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

D Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.0001 per share	TGAN	The Nasdaq Stock Market LLC

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2).

Emerging growth company  $\boxtimes$ 

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.  $\Box$ 

### Item 2.02 Results of Operations and Financial Condition.

On November 9, 2022, Transphorm, Inc. (the "Company") issued a press release announcing its financial results for its fiscal quarter ended September 30, 2022. A copy of the press release is furnished as Exhibit 99.1 to this Current Report on Form 8-K. The press release also announced that the Company would be hosting a webcast to discuss its financial results for the quarter on November 9, 2022. During the webcast, the Company will discuss the contents of a presentation prepared by the Company, a copy of which is furnished as Exhibit 99.2 to this Current Report on Form 8-K.

The information in this Item 2.02 and in the accompanying Exhibit 99.1 and Exhibit 99.2 shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act regardless of any general incorporation language in such filing, unless expressly incorporated by specific reference in such filing.

### Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.	Description
99.1	Press release, dated November 9, 2022
99.2	Investor Presentation, dated November 9, 2022
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

### 2

### Signature

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

### Transphorm, Inc.

By:

/s/ Cameron McAulay Cameron McAulay

Chief Financial Officer

Dated: November 9, 2022

### Exhibit 99.1

### **Transphorm Announces Fiscal 2023 Second Quarter Financial Results and Provides Business Update**

Product Revenue up 38% from Fiscal 2022 Q2

Company to Host Webcast Today at 5:00 p.m. ET

GOLETA, Calif.- November 9, 2022-Transphorm, Inc. (NASDAQ: TGAN)-a pioneer in and global supplier of high-reliability, high-performance gallium nitride (GaN) power conversion products, announced today financial results for its 2023 fiscal second quarter ended September 30, 2022.

### Fiscal 2023 Second Quarter and Recent Highlights

### (All comparisons are to the second quarter of fiscal 2022, unless otherwise noted.)

- Revenue of \$3.7 million, compared to revenue of \$11.3 million in the prior year, which included one-time licensing revenue of \$8.0 million. Excluding the one-time licensing revenue, revenue was up 11% on a year-over-year basis
- Product revenue was up 38% compared to the same period in fiscal 2022.
- Improved supply from Japan Epi reactors and completed acquisition of additional MOCVD reactors.
- Increased shipments on previously announced Fortune 100 laptop adapter win, a top 3 world-wide laptop manufacturer, and secured new Fortune 100 laptop adapter design-win.
- Strengthened senior operations, sales and marketing teams with the addition of seasoned industry leaders.
- Secured ARPA-E program to innovate on Transphorm's unique bi-directional GaN technology that replaces 2-4 silicon devices with a single FQS GaN in applications like microinverters and motor drives. Secured approval for Shenzhen, China WFOE (Wholly Foreign Owned Enterprise) to enhance local customer support, sales, field applications and marketing
- Expanded package offerings by adding Industry Standard PQFN products, which enable pin-to-pin with multiple sources. This complements Transphorm's existing High Performance PQFN products, both validated to deliver superior results versus competing GaN.

Transphorm President, COO, and co-founder, Primit Parikh, commented, "We continue to maintain our leadership position in high power GaN which comprised over 65% of our fiscal Q2 revenue, while winning marquee new designs in fast chargers and adapters, enabled by superior and easy to interface SuperGaN® FETs. We are also executing on our stated plan of increasing capacity, with notable improvements from our

marquee new designs in tast chargers and adapters, enabled by superior and easy to interface SuperGaN® FETs. We are also executing on our stated plan of increasing capacity, with notable improvements from our Japan Epi reactors, giving us confidence we can better address demand." Mr. Parikh added, "We exceeded our fiscal Q2 revenue target and remain well-positioned to resume revenue growth, despite persistent macroeconomic headwinds. We continue to aggressively pursue new customer wins and are fulfilling our existing backlog, while managing both internal and external supply chain constraints. With our wide range of product offerings and notably high power GaN, we continue to be well-positioned for growth across multiple market segments – including consumer, data centers, blockchain, and industrial. We also continue to pursue near-term opportunities in two-wheel and three-wheel EVs and longer-term opportunities in the automotive EV market."

"This quarter saw solid execution and lower operational burn despite reduced revenue. The Company remains well-positioned with a solid balance sheet to continue to invest in staffing and capital equipment to realize its short and long-term objectives", stated Cameron McAulay, Chief Financial Officer.

#### Fiscal 2023 Second Quarter Financial Results

Revenue for the second quarter of fiscal 2023 was \$3.7 million, compared to \$11.3 million for the second quarter of fiscal 2022. Excluding \$8.0 million of one-time licensing revenue in the second quarter of fiscal 2022, revenue for the second quarter of fiscal 2023 was up \$0.4 million, or 11%, year-over-year. Product revenue reflected yet another strong quarter from ramping shipments of GaN products for a broad range of power conversion applications, with a 38% increase from the second quarter of fiscal 2022.

Operating expenses on a GAAP basis were \$5.9 million in the second quarter of fiscal 2023, compared to \$6.1 million in the prior quarter and \$5.1 million in the second quarter of fiscal 2022. Second quarter of fiscal 2023 operating expenses consisted of R&D expenses of \$1.8 million and SG&A expenses of \$4.1 million. On a non-GAAP basis, operating expenses in the second quarter of fiscal 2023 were \$5.1 million, compared with non-GAAP operating expenses of \$5.4 million in the prior quarter and \$4.5 million in the second quarter of fiscal 2022.

GAAP net profit (loss) for the second quarter of fiscal 2023 was (\$6.0) million, or (\$0.10) per share, compared to GAAP net loss of (\$5.4) million, or (\$0.10) per share, in the prior quarter, and a GAAP net profit of \$6.0 million, or \$0.15 per share, in the second quarter of fiscal 2022. On a non-GAAP basis, net loss for the second quarter of fiscal 2023 was (\$5.1) million, or (\$0.09) per share, compared to non-GAAP net loss of (\$4.5) million, or (\$0.08) per share, in the prior quarter, and a non-GAAP net profit of \$3.6 million, or \$0.09 per share, in the second quarter of fiscal 2022.

Cash, cash equivalents and restricted cash as of September 30, 2022 were \$34.0 million.

### Webcast

Transphorm will host a webcast today at 5:00 p.m. Eastern Time (2:00 p.m. Pacific Time) to review the Company's 2023 fiscal second quarter results and provide a business update. The webcast can be accessed at: https://register.vevent.com/register/BIceb00209be5d4b33816829e56fb60ed8\_

Upon registration, telephone participants will receive a confirmation email detailing how to join the audio version of the webcast, including the dial-in number and a unique registrant ID. The live webcast will be available via Transphorm's Investor Relations website at https://www.transphormusa.com/en/investors/.

#### About Transphorm

Transphorm, Inc., a global leader in the GaN revolution, designs and manufactures high performance and high reliability GaN semiconductors for high voltage power conversion applications. Having one of the largest Power GaN IP portfolios of more than 1,000 owned or licensed patents, Transphorm produces the industry's first JEDEC and AEC-Q101 qualified high voltage GaN semiconductor devices. The Company's vertically integrated device business model allows for innovation at every development stage: design, fabrication, device, and application support. Transphorm's innovations are moving power electronics beyond the limitations of silicon to achieve over 99% efficiency, 40% more power density and 20% lower system cost. Transphorm is headquartered in Goleta, California and has manufacturing operations in Goleta and Aizu, Japan. For more information, please visit www.transphormusa.com. Follow us on Twitter @transphormusa and WeChat @ Transphorm GaN.

#### Non-GAAP Financial Measures

This press release includes and makes reference to certain non-GAAP financial measures. The presentation of this financial information is not intended to be considered in isolation or as a substitute for the financial information prepared and presented in accordance with GAAP.

Transphorm believes that the presentation of non-GAAP financial measures provides important supplemental information to management and investors regarding financial and business trends relating to the Company's financial condition and results of operations. Transphorm believes that these non-GAAP financial measures provide additional insight into Transphorm's ongoing performance and core operational activities and has chosen to provide these measures for more consistent and meaningful

comparison between periods. These measures should only be used to evaluate Transphorm's results of operations in conjunction with the corresponding GAAP measures. The non-GAAP results exclude the effect of stock-based compensation, depreciation, amortization, change in fair value of promissory note and other income in joint venture.

A reconciliation between GAAP and non-GAAP financial results is provided in the financial statements portion of this press release.

#### Forward-Looking Statements

This press release contains forward-looking statements (including within the meaning of Section 21E of the United States Securities Exchange Act of 1934, as amended, and Section 27A of the United States Securities Act of 1933, as amended) concerning the Company's ability to manage supply chain constraints, expand its manufacturing capacity and meet demand, industry acceptance of GaN technology, and the Company's pipeline and future anticipated growth. Forward-looking statements generally include statements that are predictive in nature and depend upon or refer to future events or conditions, and include words such as "may," "would," "would," "expect," "plan," "believe," "intend," "look forward," and other similar expressions among others. Statements that are not historical facts are forward-looking statements. Forward-looking statements are based on current beliefs and assumptions that are subject to risks and uncertainties and are not guarantees of future performance. Actual results could differ materially from those contained in any forward-looking statement as a result of various factors, including, without limitation: risks related to Transphorm is operations, such as additional financing requirements and access to capital; competition; the ability of Transphorm to protect its intellectual property rights; and other risks set forth in the Company's filings with the Securities and Exchange Commission. Except as required by applicable law, the Company undertakes no obligation to revise or update any forward-looking statement, or to make any other forward-looking statements, whether as a result of new information, future events or otherwise.

**Investor Contacts:** David Hanover or Jack Perkins

KCSA Strategic Communications transphorm@kcsa.com

Company Contact: Cameron McAulay Chief Financial Officer 1-805-456-1300 ext. 140 cmcaulay@transphormusa.com

### Transphorm, Inc. Condensed Consolidated Balance Sheets (in thousands)

	Septem (un	ber 30, 2022 audited)	March 31, 2022 (audited)		
Assets					
Current assets:					
Cash and cash equivalents	\$	33,496	\$	33,435	
Restricted cash		500		500	
Accounts receivable		1,617		2,558	
Inventory		8,966		6,330	
Prepaid expenses and other current assets		2,068		1,971	
Total current assets		46,647		44,794	
Property and equipment, net		5,328		1,649	
Operating lease right-of-use assets		3,312		_	
Goodwill		996		1,180	
Intangible assets, net		469		617	
Investment in joint venture		414		143	
Other assets		784		263	
Total assets	\$	57,950	\$	48,646	
Liabilities and stockholders' equity					
Current liabilities:					
Accounts payable and accrued expenses	\$	4,492	\$	3,588	
Deferred revenue		263		346	
Accrued interest		184		180	
Accrued payroll and benefits		1,331		1,171	
Operating lease liabilities		532		_	
Revolving credit facility		12,000		_	
Total current liabilities		18,802		5,285	
Revolving credit facility, net of current portion		-		12,000	
Operating lease liabilities, net of current portion		2,803		_	
Total liabilities		21,605		17,285	
Commitments and contingencies					
Stockholders' equity:					
Common stock		6		5	
Additional paid-in capital		228,178		211,190	
Accumulated deficit		(189,986)		(178,638)	
Accumulated other comprehensive loss		(1,853)		(1,196)	
Total Stockholders' equity		36,345		31,361	
Total liabilities and stockholders' equity	\$	57,950	\$	48,646	

Transphorm, Inc. Condensed Consolidated Statements of Operations (unaudited) (in thousands except share and per share data)

				Three Months Ended			Six Mon	hs E	nded
		September 30, 2022		June 30, 2022	September 30, 2021		September 30, 2022		September 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
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 (5,353)	\$ 5,980	\$	(11,348)	\$	(1,072)
Net loss per share - basic	\$	(0.10)	\$	6 (0.10)	\$ 0.15	\$	(0.20)	\$	(0.03)
Net loss per share - diluted	\$	(0.10)	\$	6 (0.10)	\$ 0.14	\$	(0.20)	\$	(0.03)
Weighted average common shares outstanding - basic	_	56,619,662		54,404,830	41,196,139		55,518,297		40,918,203
Weighted average common shares outstanding - diluted	_	56,619,662		54,404,830	 41,847,103	_	55,518,297		40,918,203
						_			

### Transphorm, Inc. Reconciliation of GAAP and Non-GAAP Financial Information (unaudited) (in thousands except share and per share data)

		Three Months Ended			Six Months Ended			
	Septem	ber 30, 2022	June 30, 2022	September 30, 2021	September 30, 2022	September 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 Mont	hs Ended
	September 30, 2022	June 30, 2022	September 30, 2021	September 30, 2022	September 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

### Transphorm, Inc. Condensed Consolidated Statements of Cash Flows (unaudited) (in thousands)

Code loss trans operating activities:         Notics         S         (1.3.48)         S         (1.3.48)           Adjustments to recordic me loss to not calu used in operating activities:		Six Months Ende	ed September 30,
Cash Irons operating activities:         (11.240)         (2           Adjuments to recordle ulos on or cash used in operating activities:		 2022	2021
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Adjamments to recordine to loss tore cash used in operating activities:         56         144           Depreciation and annotization         465         405           Annotization of right-of use asots         266	Net loss	\$ (11,348)	\$ (1,072)
Interatry write-off5194Deprection and anomization of right-of-use assets-465-405Anomization of right-of-use assets <td>Adjustments to reconcile net loss to net cash used in operating activities:</td> <td></td> <td></td>	Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and anontization         465         405           Anontization of right of use sess         26         —           Peptual licensing revenue from a related pary         —         (800)           Stock-based compensation         1.219         1.008           Interest cost	Inventory write-off	56	194
Anotization of right-of-sue sasets286Perpettal licensing revents from a related pary1.20(0.00)Stock-based compensation1.211.008Gain on sale of equipment(10)Loss in joint venture1.2661.127Changes in fair value of promissory one(060)Changes in fair value of promissory one(062)Changes in correlia gasets and libitities:(07)Accounts receivable(267)(2743)Other assets(27)(124)Other assets(27)(124)Other assets(267)(124)Other assets(267)(124)Other assets(267)(124)Other assets(267)(124)Other assets(267)(124)Other assets(267)(124)Other asset(267)(124)Other asset(267)(124)Other asset(267)(124)Other asset(267)(124)Other asset(263)(126)Poreating lack ventue de openses(263)(126)Operating lacks libilities(263)(126)Net cast used in operating activities(10)(37)Purchass of porenting activities(10)(30)Net cash used of inprint entrice(10)(30)Net cash used in inprint activities(6)(10)Proceeds from stock of one ascice(6)(10)Proceeds from stock of one ascice(6)(1	Depreciation and amortization	465	405
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Suck-based compension1.1011.008Interest cot4408Gain on sale of equipment1.2661.277Changes in fair value of promissony none-6065Changes in parting assest and liabilities:941333Inventory(2.609)(2.743)Prepaid expenses and other current assets077124Other assets077124Other assets077124Other assets077124Other assets071124Other assets073105Deferred revenue613067Deferred revenue6130162Accound payable and accould expenses944667Deferred revenue6130162Accound properting activities016037Operating lesse liabilities02630499Proceeds from steed equipment(1537)(3081)Net cash used in operating activities1003049Proceeds from stock ognine sercise15703144Proceeds from stock ognine sercise1500500Cash flows from functing activities15705144Proceeds from stock ognine sercise15775144Proceeds from stock ognine sercise157705144Proceeds from stock ognine sercise157705144Proceeds from stock ognine sercise157705144Proceeds from stock ognine sercise157705144Proceeds from stock ognine sercise157705144Pro	Perpetual licensing revenue from a related party	—	(8,000)
Interest cost4108Gain ons de e quignment10.00—Loss in joint venture1.0261.127Changes in a firat value of promissory nore—(807)Changes in a first value of promissory note91133Inventory(2.692)(2.745)Prepaid expenses and ubailities:(87)124Accounts receivable(97)124Other assets(97)124Other assets(97)124Accounts payable and current assets(93)607Deferred revenue(93)607Operating Base liabilities:(93)607Operating Base liabilities(98)(96)Accounts payable and basefits(98)(96)Operating Base liabilities(98)(96)Process from inserting activities(98)(96)Process from staot of equignment(10)	Stock-based compensation	1,219	1,008
Gai on sale of equipment         (110)         —           Loss in joint venture         1.266         (.1.127           Changes in fair value of promissory note         —         (66)           Changes in fair value of promissory note         941         33           Inventory         (2.692)         (2.743)           Prepaid expenses and labilities:         (97)         124           Oher assets         (97)         124           Oher assets         (97)         124           Accounts preal/value         (97)         124           Oher assets         (97)         124           Accounts preal/value         (93)         (97)           Deferred revenue         (93)         (97)           Accounts preal/value accured expenses         (94)         (97)           Operating lasse liabilities         (94)         (97)           Cash flows from investing activities         (98)         (98)           Proceeds from sole of equipment         (100)         -           Investing activities:         (110)         -           Proceeds from sole of equipment         (110)         -           Net cash used in investing activities:         (152)         (300)           Proceeds from s	Interest cost	4	108
Loss in joint venture1,2661,127Changes in joreating asses and liabilities:-6065Changes in joreating asses and liabilities:(2,692)(2,745)Accounts recivable(2,692)(2,745)Prepaid expenses and other current assets(2,17)13Accounts payable and accrued expenses(2,11)15Accounts payable and accrued expenses(2,11)15Accounts payable and accrued expenses(2,12)15Accounts payable and accrued expenses(2,11)16Obertard revenue(2,12)15Accounts payable and benefits(2,12)15Operating lasses liabilities(2,12)15Changes in investing activities(2,13)(2,12)Parchases of property and equipment(2,13)(2,12)Proceeds from sale of equipment(1,137)(3,081)Investing activities(2,13)(3,081)Proceeds from sale of equipment in joint venture(1,137)(3,081)Investing activities5134Proceeds from sale of equipment of extretion	Gain on sale of equipment	(110)	-
Changes in fair value of promissory note       —       (665)         Changes in generating assess and liabilities:       941       33         Inventory       (2,28)       (2,745)         Other assets       (97)       (2,145)         Other assets       (97)       (2,145)         Other assets       (97)       (2,145)         Accounts payle and accrued expenses       (97)       (2,145)         Accounts payle and accrued expenses       (97)       (2,145)         Operating assets and curved expenses       (97)       (2,145)         Accounts payle and accrued expenses       (97)       (2,165)         Operating assets and accrued expenses       (97)       (2,165)         Accrued payroll and benefits       (100)       (30)         Operating assets and payroll and benefits       (100)       (30)         Operating assets and payroll and benefits       (4,055)       (4,061)         Sta flows from investing activities:       (4,055)       (4,056)       (4,056)         Proceeds from slock option exercise       (4,056)       (3,080)       (3,080)         Atset and bus esting activities:       (4,055)       (3,046)       (3,046)         Proceeds from slock option exercise       (5)       (3,046)       (3,046)	Loss in joint venture	1,266	1,127
Changes in operating assets and liabilities:         941         33           Inventory         (2.692)         (2.745)           Prepaid expenses and other current assets         (97)         124           Other assets         (521)         15           Accounts payable and accned expenses         904         657           Deferend revenue         (83)         100           Accounts payable and accned expenses         904         657           Operating lease liabilities         (83)         100           Accounts payable and excellence         (83)         062           Accned payroll and benefits         160         37           Operating lease liabilities         (803)         (8612)           Rest aus di n operating activities         (4025)         (409)           Purchaes of property and equipment         110            Investing activities         (1137)         (3081)           Purchaes of property and equipment         (1523)         (3040)           Investing activities         (1137)         (3081)           Proceeds from sick option exercise         (1630)         (3040)           Proceeds from issuance of common stock         (260)         (304)           Proceeds from issuance of common	Changes in fair value of promissory note	—	(605)
Accounts receivable       941       33         Inventory       (2692)       (2745)         Prepaid expenses and other current assets       (97)       124         Other assets       (51)       124         Accounts payable and accrued expenses       (52)       125         Accounts payable and accrued expenses       904       657         Deterred revenue       (83)       002         Accrued payroll and benefits       (263)       (263)         Operating lease liabilities       (263)       (263)         Operating lease liabilities       (263)       (263)         Operating lease liabilities       (263)       (263)         Proteces from sise of equipment       (3643)       (3642)         Proteces from sise of equipment       (10)          Investing activities       (10)          Investing activities       (10)        -         Proceeds from issale of equipment       (10)        -         Investing activities       (10)        -       -         Proceeds from issale of equipment       (10)        -       -       -       -       -       -       -       -       - <td< td=""><td>Changes in operating assets and liabilities:</td><td></td><td></td></td<>	Changes in operating assets and liabilities:		
Inventory         (2,692)         (2,745)           Propid expenses an ober current assets         (97)         (124           Other assets         (521)         15           Accounts payable and accrued expenses         904         6657           Deferred revenue         (83)         (8612)           Accrued payroll and benefits         (863)         (8612)           Operating activities         (803)         (8612)           Purchases of property and equipment         (4025)         (409)           Proceeds from sale of equipment         (10)            Investment in joint venture         (4025)         (409)           Proceeds from sale of equipment         (10)            Investment in joint venture of equipment         (15)70         (30490)           Proceeds from isotck option exercise         (6)            Proceeds from isotck option exercise         (6)            Proceeds from isotck option exercise         (6)            Payment for taxes related to net share settlement of restricted cash         (6)            Payment for taxes related to net share settlement of restricted cash         (6)            Payment for taxes related to net share settlement of restricted cas	Accounts receivable	941	33
Prepaid expenses and other current assets       (97)       124         Other assets       (521)       15         Accounds payable and accrued expenses       094       657         Deferred revenue       (83)       102         Accrued payroll and benefits       (83)       003         Operating lesse liabilities       (263)          Accrued payroll and benefits       (263)          Cash flows from investing activities:       (4026)       (409)         Proceeds from sale of equipment       (1537)       (3081)         Investment in joint venture       (1537)       (3081)         Proceeds from slox option exercise        (4026)          Proceeds from slox option exercise        (4026)          Proceeds from slox option exercise             Proceeds from slox option exercise	Inventory	(2,692)	(2,745)
Other assets         (521)         15           Accounts payable and accued expenses         904         657           Deferred revenue         (83)         102           Accrued payroll and benefits         160         37           Operating lease liabilities         (263)         —           Vet cash used in operating activities         (9,413)         (8,612)           Purchases of propety and equipment         (4025)         (4099)           Proceeds from sale of equipment         110         —           Investment in joint venture         (1,537)         (3,681)           Net cash used in investing activities         (1,537)         (3,681)           Proceeds from slock option exercise         (3,491)         (3,491)           Net cash used in investing activities         (5,623)         (3,491)           Proceeds from slock option exercise         56         134           Proceeds from issuare of common stock         (280)         —	Prepaid expenses and other current assets	(97)	124
Accounts payable and accrued expenses       904       667         Deferred revenue       (83)       102         Accounts payable and benefits       160       37         Operating lease liabilities       (263)       —         Operating lease liabilities       (98,13)       (96,612)         Cash flows from investing activities:       (40,26)       (40,26)         Proceeds from sale of equipment       (110       —         Proceeds from sale of equipment       (11,537)       (3,081)         Net cash used in payating activities:       (11,537)       (3,081)         Proceeds from slox option exercise       (15,057)       (3,081)         Proceeds from slox option exercise       (16,00)       (5,00)         Proceeds from slox option exercise       (16,00)       (10,00)         Proceeds from slox option exercise       (16,00)       (10,00)         Proceeds from slox option exercise       (16,00)       (10,00)         Cost asociated with Issuare of common stock       (280)       (280)       (280)         Net cash provided by financing activities       (10,00)       (10,00)       (10,00)       (10,00)       (10,00)       (10,00)       (10,00)       (10,00)       (10,00)       (10,00)       (10,00)       (10,00)       (10	Other assets	(521)	15
Deferred revenue         (83)         102           Accrued payroll and benfits         160         37           Operating lesse liabilities         (26)            Net cash used in operating activities         (9,813)         (8,612)           Cash flows from investing activities:         (400)         (400)           Purchases of property and equipment         (4,026)         (400)           Proceeds from sale of equipment         (1,537)         (3,081)           Net cash used in investing activities         (543)         (3400)           Proceeds from insuch activities:         (280)         (280)            Proceeds from suck or prostock option exercise         (6)         -         -           Proceeds from suck or exercise         (6)         -         -           Proceeds from suck or exercise         (6)         -         -           Proceeds from suck or exercise         (6)         -         -           Net cash provided by financing activities         (6)         -         -           Net cash provided by financing activities         (6)         -         -           Net case provided by financing activities         (6)         -         -           Net case provided by financing activities	Accounts payable and accrued expenses	904	657
Accrued payroll and benefits         160         37           Operating lease liabilities         (263)         (263)         (263)         (8,612)           Net cash used in operating activities:         (4,025)         (4,	Deferred revenue	(83)	102
Operating lease liabilities         (263)            Net cash used in operating activities         (9,813)         (8,612)           Cash flows from investing activities         (4,026)         (409)           Purchases of property and equipment         (1,037)         (3,040)           Proceeds from subset of equipment         (1,037)         (3,040)           Investment in joint venture         (5,453)         (3,490)           Cash flows from financing activities:         (6)         (1,000)         (5,000)           Proceeds from sick of common stock         (280)            Payment for taxes related to net share settlement of restricted sock units         (6)            Net cash provided by financing activities         (6)            Payment for taxes related to net share settlement of restricted sock units         (6)            Restricted cash equivalents and restricted cash         (443)            Net cash provided by financing activities         110         (7,012)           Cash and cash equivalents and restricted cash         33,435         9,500           Cash and cash equivalents and restricted cash and restricted cash         6)            Net cash provided by financing activities         110,770         5,134	Accrued payroll and benefits	160	37
Net cash used in operating activities         (8,612)           Cash flows from investing activities         (4,026)         (4,026)         (4,09)	Operating lease liabilities	 (263)	
Cash flows from investing activities:         Purchases of property and equipment         (409)           Proceeds from sale of equipment         (10)         —           Investment in joint venture         (1,537)         (3,081)           Net cash used in investing activities         (5,453)         (3,081)           Proceeds from financing activities:         (5,453)         (3,081)           Proceeds from source of common stock         16,000         5         134           Proceeds from source of common stock         16,000         5,000         5         134           Proceeds from source of common stock         (280)         —         -         16,000         5         134           Proceeds from source of common stock         (280)         —         -         16,000         5,000         -         -         16,000         -         -         16,000         -         -         -         16,000         -         -         -         16,000         -         -         -         -         -         -         16,000         -         -         -         -         -         -         16,000         -         -         -         16,000         -         -         16,000         -         -         16,0	Net cash used in operating activities	(9,813)	(8,612)
Purchases of property and equipment       (4,026)       (409)         Proceeds from sale of equipment       (10          Investment in joint venture       (1,537)       (3,081)         Net cash used in investing activities:       (54,33)       (3,490)         Cash flows from financing activities:       56       134         Proceeds from isock option exercise       (60)       5,000         Cost associated with issuance of common stock       (280)       -         Payment for taxes related to net share settlement of restricted stock units       (6)       -         Net cash provided by financing activities       (443)       (444)         Effect of foreign exchange and restricted cash and restricted cash       61       (7,012)         Cash and cash equivalents and restricted cash       33,435       9,500         Cash and cash equivalents and of period       33,435       9,500         Cash and cash equivalents and of period       50       5000         Cash and cash equivalents and of period       500       500         Cash and cash equivalents and of period       500       500         Cash and cash equivalents and of period       500       500         Cash and cash equivalents and of period       500       500         Cash and cash equivalents a	Cash flows from investing activities:		
Proceeds from sale of equipment110—Investment in joint venture(1,537)(3,081)Net cash used in investing activities(5,453)(3,490)Cash flows from financing activities56134Proceeds from stock option exercise56134Proceeds from stock option exercise(260)—Payment for taxes related to net share settlement of restricted stock units(6)5.000Net cash provided by financing activities(6)—Net cash provided by financing activities(43)(44)Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash(43)(44)Cash and cash equivalents and restricted cash(10)(7,012)Cash and cash equivalents and operiod33,4359,500Cash and cash equivalents and operiod5005Cash and cash equivalents and operiod533,996Cash and cash equivalents and operiod533,995Cash and cash equivalents and operiod534,995	Purchases of property and equipment	(4,026)	(409)
Investment in joint venture       (1,537)       (3,081)         Net cash used in investing activities       (543)       (3,081)         Proceeds from financing activities       56       134         Proceeds from stock option exercise       16,000       5,000         Cost associated with issuance of common stock       16,000       5,000         Cost associated with issuance of common stock       2(80)          Proceeds from issuance of common stock       (280)          Payment for taxes related to net share settlement of restricted stock units       (6)          Net cash provided by financing activities       15,770       5,134         Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash       (443)       (444)         Net increase (decrease) in cash, cash equivalents and restricted cash       33,435       9,500         Cash and cash equivalents and restricted cash at eginning of period       33,435       9,500         Cash and cash equivalents at end of period       33,496       1,988         Restricted cash at end of period       5       500         Cash and cash equivalents at end of period       5       500         Cash and cash equivalents at end of period       5       500         Cash and cash equivalents at end of period	Proceeds from sale of equipment	110	_
Net cash used in investing activities(3,490)Cash flows from financing activities5134Proceeds from stock option exercise16,0005,000Cost associated with issuance of common stock(280)-Payment for taxes related to net share settlement of restricted stock units(6)5,134Effect of freign exchange rate changes on cash, cash equivalents and restricted cash(41)(41)Net cash equivalents and restricted cash33,4359,500Cash and cash equivalents and of period33,4961,988Restricted cash at end of period533,9965Cash and cash equivalents and restricted cash at end of period534,488	Investment in joint venture	 (1,537)	(3,081)
Cash flows from financing activities:       9       34         Proceeds from stock option exercise       166,000       5,000         Proceeds from issuance of common stock       (280)       -         Payment for taxes related to net share settlement of restricted stock units       (280)       -         Payment for taxes related to net share settlement of restricted stock units       (6)       -         Net cash provided by financing activities       15,770       5,134         Effect of foreign exchanges and cash equivalents and restricted cash       (443)       -         Net increase (decrease) in cash, cash equivalents and restricted cash       61       (7,012)         Cash and cash equivalents and operiod       33,435       9,500         Cash and cash equivalents and operiod       500       5       500         Cash and cash equivalents and operiod       500       500       500         Cash and cash equivalents and operiod       500       500       500         Cash and cash equivalents and restricted cash at end of period       500       500       500 </td <td>Net cash used in investing activities</td> <td>(5,453)</td> <td>(3,490)</td>	Net cash used in investing activities	(5,453)	(3,490)
Proceeds from stock option exercise56134Proceeds from issuance of common stock16,0005,000Cost associated with issuance of common stock(280)-Payment for taxes related to net share settlement of restricted stock units6)-Net cash provided by financing activities15,7705,134Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash61(7,012)Cash and cash equivalents and restricted cash33,4359,500Cash and cash equivalents and of period33,4961,988Restricted cash at end of period500\$500Cash and cash equivalents and refericted scash tend of period500\$500Cash and cash equivalents and refericted cash at end of period500\$2,488Restricted cash at end of period533,996\$2,488	Cash flows from financing activities:		
Proceeds from issuance of common stock     16,000     5,000       Cost associated with issuance of common stock     (280)     -       Payment for taxes related to net share settlement of restricted stock units     (6)     -       Net cash provided by financing activities     15,770     5,134       Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash     (443)     (444)       Net increase (decrease) in cash, cash equivalents and restricted cash     61     (7,012)       Cash and cash equivalents and restricted cash at beginning of period     33,435     9,500       Cash and cash equivalents and of period     33,496     1,988       Restricted cash at end of period     500     500       Cash and cash equivalents and restricted cash at end of period     500     500	Proceeds from stock option exercise	56	134
Cost associated with issuance of common stock     (280)       Payment for taxs related to net share settlement of restricted stock units     (6)       Net cash provided by financing activities     15,770       Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash     (44)       Net increase (decrease) in cash, cash equivalents and restricted cash     61       (7,012)       Cash and cash equivalents and restricted cash at beginning of period     33,435       Restricted cash at end of period     33,496       Restricted cash at end of period     500       Cash and cash equivalents and restricted cash at end of period     500	Proceeds from issuance of common stock	16,000	5,000
Payment for taxes related to net share settlement of restricted stock units       (6)         Net cash provided by financing activities       (5,134)         Effect of foreign exchanges and cash, cash equivalents and restricted cash       (44)       (44)         Net increase (decrease) in cash, cash equivalents and restricted cash       (6)       (7,012)         Cash and cash equivalents and restricted cash at beginning of period       (33,435)       (9,500)         Cash and cash equivalents at end of period       (33,496)       1,988         Restricted cash at end of period       (500)       5       500         Cash and cash equivalents at end of period       (500)       5       2,488	Cost associated with issuance of common stock	(280)	_
Net cash provided by financing activities15,7705,134Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash(443)(44)For cash cash equivalents and restricted cash61(7,012)Cash and cash equivalents and restricted cash at beginning of period33,4359,500Cash and cash equivalents and of period33,4361,988Restricted cash at end of period5005500	Payment for taxes related to net share settlement of restricted stock units	(6)	
Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash(443)Net increase (decrease) in cash, cash equivalents and restricted cash61Cash and cash equivalents and restricted cash33,435Cash and cash equivalents at end of period33,496Cash and cash equivalents at end of period50Cash and cash equivalents and restricted cash at end of period50	Net cash provided by financing activities	 15,770	5,134
Net increase (decrease) in cash, cash equivalents and restricted cash         61         (7,012)           Cash and cash equivalents and restricted cash at beginning of period         33,435         9,500           Cash and cash equivalents at end of period         33,496         1,988           Restricted cash at end of period         500         5         500           Cash and cash equivalents and restricted cash at end of period         \$         33,996         5         2,488	Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash	(443)	(44)
Cash and cash equivalents and restricted cash at beginning of period     33,435     9,500       Cash and cash equivalents at end of period     33,496     1,988       Restricted cash at end of period     500     500       Cash and cash equivalents and restricted cash at end of period     \$ 33,996     \$ 2,488	Net increase (decrease) in cash, cash equivalents and restricted cash	61	(7,012)
Cash and cash equivalents at end of period33,4961,988Restricted cash at end of period500\$500Cash and cash equivalents and restricted cash at end of period\$33,996\$2,488	Cash and cash equivalents and restricted cash at beginning of period	33,435	9,500
Restricted cash at end of period500\$500Cash and cash equivalents and restricted cash at end of period\$33,996\$2,488	Cash and cash equivalents at end of period	33,496	1,988
Cash and cash equivalents and restricted cash at end of period \$ 33,996 \$ 2,488	Restricted cash at end of period	500	\$ 500
	Cash and cash equivalents and restricted cash at end of period	\$ 33,996	\$ 2,488



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2

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#### One Core Platform, Crossing the Power Spectrum Targeting \$3B Power Market Opportunity in 2023, Upside from EV Powertrain 2025+ AEROSPACE DEFENSE NER ADAPTER DATA CENTERS BROAD INDUSTRIAL RENEWABLES EV MOBILITY $\odot$ 45W - 500W 500W - 2kW 1.5kW - 3.6kW 1.5kW - 4kW 500W - 2kW 500W - 10kW 800W-50kW 500W - 3kW 100kW End Customers in Production with TPH GaN- 45W to 4 kW Fast charging Proven ability to double 2W-3W-4W: Reduces • • Reduces size/weight of • size/weight of on-board Lower thermals/ available power in standardized systems smaller form factor server/5G telecom form factors . More efficient charging for chargers, converters and Lower system cost **Enable Titanium-class efficiency** battery/battery-powered inverters • equipment and vehicles **EU requirement** • Longer distance per charge transphorm 4

NASDAQ: TGAN





NASDAQ: TGAN

## 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

7

- 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<sub>2</sub> emissions / TGAN Device<sup>2</sup>

	In Production	1	
Markets	GaN e-mode or "IC"	GaN FET	Power Range TGAN Wins
Adapters	<ul> <li></li> </ul>	~	30-250W
Datacenters	×	~	800-3200W
Gaming (Desktop)	×	~	1600W
Blockchain	×	~	1600-3600W
Industrial, Renewable (≥ 500 W)	×	~	500-3000W
Aerospace	×	~	420-1200W

<sup>1.</sup> Based on our best knowledge of released products, press release and in volume

production with customers' systems
 Based on existing rectifiers with 92% efficiency | Source: EPA estimated one kWh produces 1.52 pounds of carbon dioxide (excl. line-losses).







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

10





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

### 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**

14

- 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

### **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	<b>\$3.7m</b> (>85% Product)	<b>\$5.2m</b> (>85% Product)	<ul> <li>Growth resuming in Q3</li> <li>Total Revenue increased 11% from Q2'FY22 (excl Licensing)</li> <li>Product revenue increased 38% from Q2 FY22</li> </ul>
Gross Margin	12%	21%	<ul> <li>Stable direct margins Q2 vs. Q1</li> <li>GM% - indirect costs a greater drag on margins at lower revenue base in Q2, drag will reduce as revenue increases</li> </ul>
OPEX (non-GAAP)	\$5.1m	\$5.4m	<ul><li>Reduced G&amp;A costs</li><li>Increased Sales/Apps headcount</li></ul>
EPS (non-GAAP)	(\$0.09)	(\$0.08)	Stable EPS Q to Q
Stockholders Equity	\$3	6m	<ul><li>\$34m cash and cash equivalents</li><li>Reduced Operational burn in Q2</li></ul>
Operational Notables			<ul><li>Solid Backlog in place to support growth</li><li>Capital expenditure to enable larger capacity</li></ul>

15



Positioned to Grow	Across Multiple Segn	nents
		Vehicle (EV) Market Adoption
CY 2021-2022	Execution and Expansion	Achieve Target Model
<ul> <li>Multiple revenue streams in place</li> <li>Growing production across multiple segments</li> <li>Shipped &gt; 1M units in December 2021</li> <li>Continued investment in growth across all aspects of the company</li> <li>Investing in capacity increases</li> </ul>	<ul> <li>Broad market inflection point</li> <li>Ramping revenue across consumer, data centers and blockchain segments</li> <li>Continue to scale capacity aggressively</li> <li>Initial wins in EV 2W/3W segments</li> <li>Continued government contracts</li> </ul>	<ul> <li>Continued momentum and broad market expansion</li> <li>Automotive adoption (EV 4W)</li> <li>Leader in High Power, EV, Consumer segments</li> <li>Positive cash flow generation</li> <li>Execute to target model</li> </ul>
		transph NASDAQ:





## **Income Statement**

### **Exceeded Consensus Revenue target, Reduced OPEX**

Three Months Ended				ed		Six Months Ended			
	9	0/30/2022	6/30/2022	9/30/2021	9	0/30/2022	9/30/2021		
Revenue, net	s	3,670 \$	5,156	\$ 11,303	s	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	s	(5,995) \$	(5,353)	\$ 5,980	s	(11,348) \$	(1,072)		
Net loss per share - basic	s	(0.10) \$	(0.10)	\$ 0.15	S	(0.20) \$	(0.03)		

### Revenue of \$3.7m in Q2

- Product revenue \$3.2mGovernment \$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)

# transphorm NASDAQ: TGAN

### Subject to completion of review procedures

20

**Balance Sheet** 

21

Solid Cash Position, Strong Stockholders Equity

	Septem	seer 30, 2022	June 30, 2022	September 30, 2021
Assets				
Current assets:				
Cash and cash equivalents	s	33,496 \$	42,613	\$ 1,988
Restricted cash		500	500	500
Accounts receivable		1,617	3,203	1,585
Inventory		\$,966	6,963	4,774
Prepaid expenses and other current assets	-	2,068	2,575	1,325
Total curvent 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	85
Other assets		784	291	255
Total assets	\$	57,950 S	63,730	\$ 14,336
Current liabilities: Accounts pavable and accrued expenses	5	4,492 \$	4.674	\$ 4.047
Accounts payable and accrued expenses	5	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 curvent liabilities		18,802	18,851	21,883
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	33,883
Total Stockholders' equity (deficit)		36,345	41,938	(19,546
Total liabilities and stockholders' equity (deficit)	s	57,950 S	63,730	s 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

## 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		14\$	14\$
Changes in fair value of promissory note		_	-	(1,629)		-	(605)
Other income		-	_	(1,455)		_	(1,455)
Total adjustments to GAAP net (loss) income		\$75	\$08	(2,365)		1,683	(647)
Non-GAAP net (loss) income	5	(5,120) \$	(4,545) \$	3,615	5	(9,665) \$	(1,719)
GAAP net (loss) income per share - basic	5	(0.10) \$	(0.10) \$	0.15	5	(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) S	(0.08) \$	0.09	5	(0.17) \$	(0.04)
GAAP net (loss) income per share - diluted	s	(0.10) \$	(0.10) \$	0.14	s	(0.20) \$	(0.03)
Adjustment		0.01	0.02	(0.05)		0.03	(0.01)
Non-GAAP net (loss) income per share - diluted	s	(0.09) \$	(0.08) \$	0.09	s	(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	s	5,940 S	6,140 S	5,130	s	12,080 S	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	6\$0	_	1,591	1,347
Non-GAAP operating expenses	\$	5,118 \$	5,371 S	4,450	\$	10,489 \$	9,036

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

Non-GAAP OPEX lower in the quarter

22

Subject to completion of review procedures

### **Glossary of Terms and Abbreviations**

AC – alternating current AEC-2010 – 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 BIT – 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 DP2ba – a sirvice mountable version of the TO220 packase

D2Pak – a surface mountable version of the TO220 package

DC - direct current

Die/Chip – an individual semiconductor device on the wafer, prior to packaging

Die/Chip – an individual semiconductor device on the wafer, prior to packaging EAR – Export Administration Regulation FET – field effect transistor, a type of switching transistor FIT – failure in time, referring to a semiconductor wafer fabrication facility FET – field effect transistor, a type of switching transistor 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 biplont 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. LDAR 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 eniver of ).

- (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

- 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 seniconductors RF radio frequency SCR silicon controlled rectifier, an early semiconductor switching device Si silicon carbide TO transistor outline leaded packages commonly used in power semiconductors (such as TO220, TO247)

#### 23