

## SEMICONDUCTOR INDUSTRY GREEN BOOK 2018

**Graphs from the Blue Book** 

Administered by WSTS, Inc.

Compiled by Moss Adams LLP in Campbell, topserve.ch GmbH in Winterthur and Grant ThorntonTaiyo in Tokyo

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The statistics presented in this report have been compiled on the basis of confidential data submitted by companies participating in the survey; estimates provided by WSTS, Inc. are included for nonparticipating companies worldwide. To adjust for non-receipt of any participant's data, Moss Adams LLP, topserve.ch GmbH and Grant Thornton Taiyo (GTT) will use that company's previously reported market share to compute its input data for the current month. The report reflects worldwide statistics for all non-captive semiconductor manufacturers worldwide.

Reported data include all monthly net billings (shipments) between semiconductor manufacturers and their end customers, authorized distributors and divisions or subsidiaries that manufacture end products.

All billings are reported according to customer shipment location. Actual sales prices (or comparable market prices for internal transfers) are used to value all billings.

Semiconductor companies participating in the survey should refer to the previously issued World Semiconductor Trade Statistics Participant Manual and the WSTS Product Classification for a more detailed description of the program, including detailed definitions of product categories. All participant inquiries with respect to the program, including the name of companies participating in the survey and the public sources used in compiling estimates, should be directed to the WSTS Administrator. All public inquiries concerning WSTS should be addressed to SIA in the Americas, Taiwan and China, to ESIA in Europe, to WSTS Japan Council in Japan and to KSIA in Asia Pacific (except for Taiwan and China).

Moss Adams LLP compiled the accompanying statistics from data submitted by participating companies, GTT in Tokyo, topserve.ch GmbH in Winterthur, and WSTS, Inc. in accordance with procedures described in the aforementioned participant manual. Because their work was limited to tabulating information furnished without audit, they can assume no responsibility for the accuracy of the underlying amounts.

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Definitions						
Definition of regions: WW:	see Product Classification sum of regions					
The following measures are all plotted on the most recent month:						
3MMA: 12MMA:	3-Month Moving Average, sum of 3 months divided by 3. 12-Month Moving Average, sum of 12 months divided by 12.					
3/12: 12/12:	Percent change of a 3-month period to a similiar period 12 months previously Percent change of a 12-month period to a similiar period 12 months previous					
Bill: Geographic Billing:	Shipments made and billed by ship-to location, including NRE. Dollar value of net billings into each region by ship-to location between non-c customers, authorized distributors and divisions or subsidiaries that manufac					

Introduction

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Actual sales price or comparable market price for internal transfers.

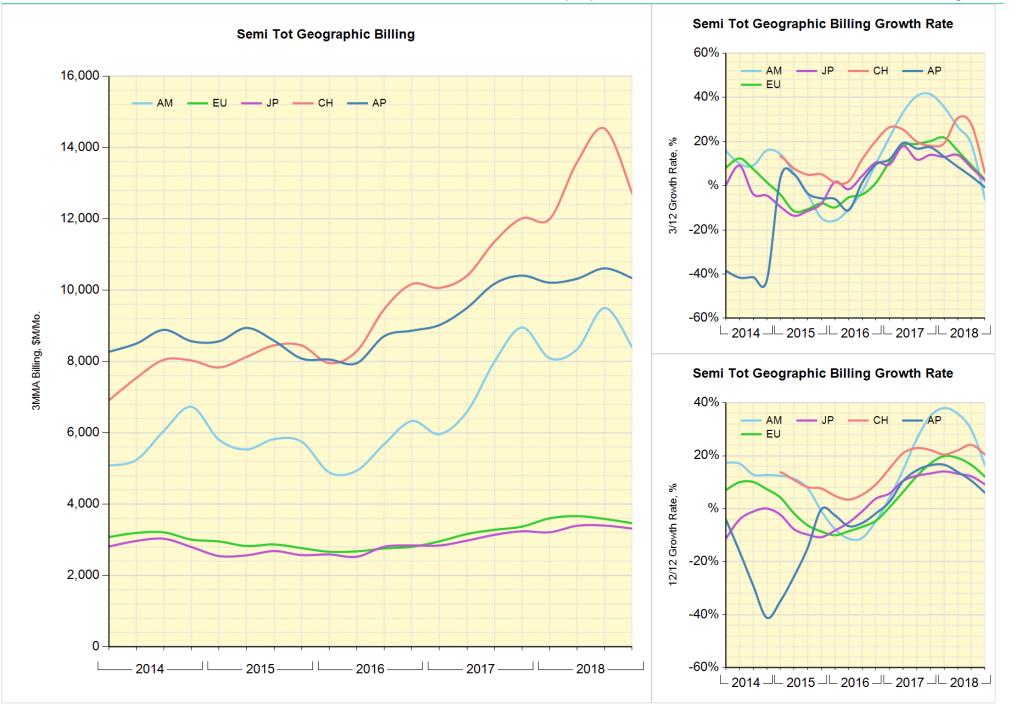
Price:

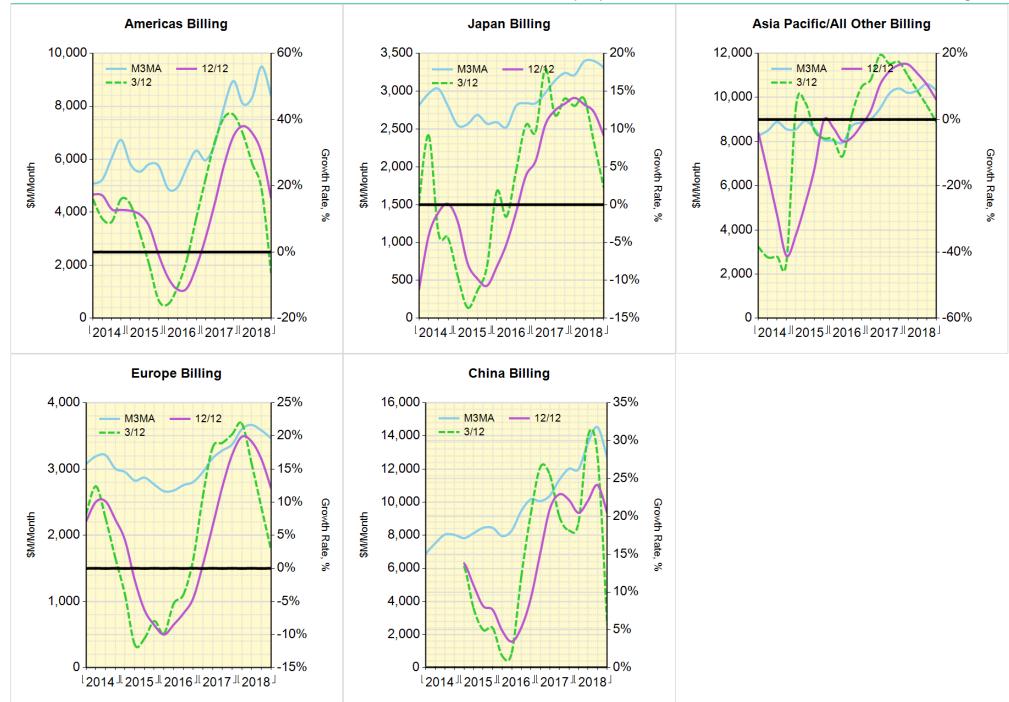
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TOTAL SEMICONDUCTOR	Т99	GENERAL PURPOSE ANALOG	JO	MULTIPURPOSE & OTHER	L9
TOTAL MONOL INTEG CIRCUITS	S2	INTERFACE	J4	MOS SPECIAL PURPOSE LOGIC	LA
TOTAL DISCRETES	S3	POWER MANAGEMENT	J6	TOTAL LOGIC	L99
DIODES	A99	SIGNAL CONVERSION	J7	TOTAL MOS DRAM	M1
SMALL SIGNAL TRANSISTORS	B99	AMPLIFIERS/COMPARATORS (SIGNAL	J9	TOTAL MOS SRAM	M2
POWER TRANSISTORS	C99	CONDITIONING) APPLICATION SPECIFIC ANALOG	1.0	MOS PSEUDO-SRAM	M2A
<b>BIPOLAR &amp; OTHER PWR TRANS</b>	CA	CONSUMER	JA	MOS SRAM	M2B
INSULATED GATE BIPOLAR TRANS	CB	COMPUTER	JB	TOTAL OTHER MEMORY	M6
MOSFET POWER TRANSISTORS	CC		JC	TOTAL FLASH MEMORY	M7
RECTIFIERS	D99	COMMUNICATIONS	JD	TOTAL NOR FLASH MEMORY	M7A
THYRISTORS	E99		JE	TOTAL NAND FLASH MEMORY	M7B
DISPLAYS	F1	INDUSTRIAL & OTHERS	JF	MOS MASK PROM & EPROM	M8
LAMPS	F2	TOTAL ANALOG	J99	TOTAL MOS MEMORY	M99
COUPLERS/ISOLATORS & SWITCHES	F3	DIGITAL BIPOLAR	L1	MOS MPU	P1
IMAGE SENSORS	F5	MOS GENERAL PURPOSE LOGIC	L2a	MOS MCU	P2
OTHER OPTOELECTRONICS	F6	MOS GATE ARRAYS	L2b	MOS MCU	P20
INFRARED	F7	MOS STANDARD CELLS	L2c	GENERAL MCU	P5
LASER PICKUP	F8	MOS DISPLAY DRIVERS	L3	GENERAL MCU	P50
LASER TRANSMITTER	F9	MOS TOUCH SCREEN CONTROLLERS	L4	SMART CARD MCU	P6
LIGHT SENSORS	F10	LOGIC, STANDARD	LS	SMART CARD MCU	P60
TOTAL OPTOELECTRONICS	F99	CONSUMER	L5	MOS DIGITAL SIGNAL PROCESSORS	P4
ALL OTHER DISCRETE	G99	COMPUTER & PERIPHERALS	L6	TOTAL MOS MICRO	P99
SENSORS & ACTUATORS	H99	COMMUNICATION	L7	TOTAL APPL SPEC IC	Q99
	100	AUTOMOTIVE	L8	TOTAL SEMICONDUCTOR	UT99

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