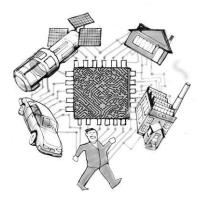
Sector View

Semiconductors

	1 M	3 M	6 M	31/12/15
Semiconductors	-6.5%	-6.4%	-9.6%	-6.5%
DJ Stoxx 600	-8.5%	-11.2%	-15.6%	-8.5%
*Stoxx Sector Indices				

Companies co	overed				
ARM HOLDIN	GS	BUY	1310p		
Last Price	981p	Market Cap.	GBP13,785m		
ASML		BUY	EUR85		
Last Price	EUR82.25	Market Cap.	EUR35,642m		
DIALOG		NEUTRAL	EUR38		
Last Price	EUR27.625	Market Cap.	EUR2,151m		
INFINEON		BUY	EUR15		
Last Price	EUR11.725	Market Cap.	EUR13,261m		
SOITEC		NEUTRAL	EUR0.8		
Last Price	EUR0.52	Market Cap.	EUR120m		
STMICROELEO	CTRONICS	NEUTRAL	EUR7		
Last Price	EUR5.484	Market Cap.	EUR4,996m		



December data well below seasonal figure but January sales should be back in line

For December, preliminary WSTS data points to an overall global semiconductor market of USD27.2bn, down 1.0% sequentially and 9.0% yoy. This was in line with our previous comments but significantly below our 5-y historical benchmark pointing to a usual sequential increase of 7.8% in December. As a result, 2015 global semiconductor sales ended at USD335bn, flat compared to 2014 as expected. Despite, the current weak spot in the smartphone sector, we expect to see January sales in line with the historical benchmark thanks to a recent sharp rebound in automotive production in Asia (clearing of excess inventories coming to the end). In this environment, we continue to favour stocks with solid fundamentals compared to value stocks, namely ASML, ARM and Infineon.

ANALYSIS

- Global semiconductor sales continued to decrease on a yoy basis with December sales at USD27.2bn, down 9.0% yoy. On a sequential basis, December's global sales were down 1.0% compared to November's sales. This was well below our benchmark based on 5-y historical data showing an historical seasonal increase of 7.8% in December vs. November. As a result, 2015 global semiconductor sales ended at USD335bn, USD1bn down compared to 2014, broadly flat as expected. Based on the visibility we now have, we anticipate a tough environment in smartphones while we see signs of recovery in the automotive sector impacted by inventory adjustments so far. The macro economy index is stabilising despite remaining at a very low level (US and Chinese January. PMI index <50).
- As for November, all regions, including Asia, showed a yoy decrease in sales. Indeed, December's sales in Asia, which represent 60.0% of semiconductor billings (of which ~50% are made in China), were down by 2.4% yoy. This was the third time in 2015 that Asian sales were down (July and November before). US momentum was particularly weak with a yoy decrease of 25.1% in December 2015. European and Japanese sales were down by 7.6% and 8.4% respectively.
- January and beyond: January sales expected to be weak, 2015 to be flat. We expected global December sales to be weak but the figures were worse than expected. This was due to the recent slowdown in the smartphone market, especially for the Apple supply chain which benefited from strong resistance so far. We believe the environment will remain tough in this segment over H1 2016 (at least). We also expected the end of the inventory adjustments in the automotive and Industrial sectors during Q1 2016 and we now believe that the automotive sector will benefit from a sharp rebound in production in China. Finally, we continue to see the PC segment at the bottom with no signs of improvement. January ISM data was stable with the US PMI Manufacturing index at 48.2 but below the 50 level indicating that economic conditions remain fragile. January's production index however was higher at 50.2 after a sharp decrease from 52.9 to 49.2 in October, and the Inventories Index stuck at a very low level of 43.5. Chinese data improved slightly with Markit PMI Manufacturing at 48.4 vs 48.2 (and 51.3 in April 2015). For 2016, we expect limited growth for the semiconductor industry at 2-3% or WW sales of USD343bn at mid-point.

VALUATION

2016e P/E valuation lowered in January. Our semiconductor valuation table highlights the valuation differences between the six sub-sectors of the industry. On average, IP & EDA vendors, and IDMs have the highest valuation metrics with an average 2016e P/E ratio of 16.9x and 15.2x respectively (down from 19.6x and 16.4x a month ago). Conversely, Memory makers have the lowest valuation with an average 2016e P/E ratio of 9.1x (down from 13.4x a month ago).

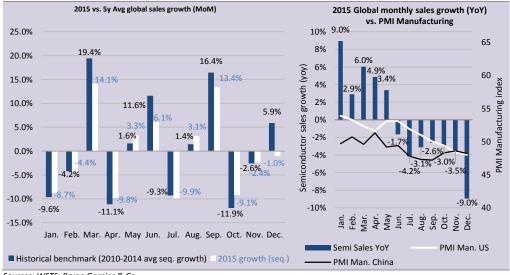
BG semiconductor sub-sectors valuation table

	YTD stocks perf.		2016e			
Subsector avg. (# of comp.)	Avg. / Med.	High / Low	EV/Sales	EV/EBITDA	EV/EBIT	P/E
Fabless (14)	-5.8% / -8.7%	17.6% / -24.9%	2.4x	8.4x	10.3x	15.1x
Logic & Analog IDM (16)	-6.8% / -5.1%	1.9% / -19.9%	2.5x	7.8x	11.0x	15.2x
Memory IDM (4)	-15.6% / -15.8%	-8.7% / -22.1%	0.8x	2.7x	6.5x	9.1x
Foundry (5)	-5.9% / -8.7%	6.2% / -15.2%	1.4x	3.8x	10.3x	11.6x
Semi Equip. & Materials (11)	-4.7% / -5.5%	8.4% / -19.6%	1.9x	8.6x	15.9x	14.6x
IP & EDA (10)	-2.8% / -4.2%	7.0% / -8.2%	4.2x	13.4x	17.0x	16.9x

Numbers between brackets represent the number of companies in each category; green/red numbers are higher/lower data per ratio. Sources: Thomson Reuters I.B.E.S.; Bryan Garnier & Co.

NEXT CATALYSTS

• December 2015 SIA global billing reports, expected for early March.



December sales are well below seasonal, January is expected to be in line

Sources: WSTS; Bryan Garnier & Co.

Click here to download document



Analyst : Dorian Terral 33(0) 1.56.68.75.92 dterral@bryangarnier.com Sector Team : Richard-Maxime Beaudoux Thomas Coudry Gregory Ramirez

Bryan Garnier stock rating system

For the purposes of this Report, the Bryan Garnier stock rating system is defined as follows:

Stock rating

BUY	Positive opinion for a stock where we expect a favourable performance in absolute terms over a period of 6 months from the publication of a					
	i i i i i i					
	recommendation. This opinion is based not only on the FV (the potential upside based on valuation), but also takes into account a number of					
	elements that could include a SWOT analysis, momentum, technical aspects or the sector backdrop. Every subsequent published update on the stock					
	will feature an introduction outlining the key reasons behind the opinion.					

NEUTRAL Opinion recommending not to trade in a stock short-term, neither as a BUYER or a SELLER, due to a specific set of factors. This view is intended to be temporary. It may reflect different situations, but in particular those where a fair value shows no significant potential or where an upcoming binary event constitutes a high-risk that is difficult to quantify. Every subsequent published update on the stock will feature an introduction outlining the key reasons behind the opinion.

SELL Negative opinion for a stock where we expect an unfavourable performance in absolute terms over a period of 6 months from the publication of a recommendation. This opinion is based not only on the FV (the potential downside based on valuation), but also takes into account a number of elements that could include a SWOT analysis, momentum, technical aspects or the sector backdrop. Every subsequent published update on the stock will feature an introduction outlining the key reasons behind the opinion.

Distribution of stock ratings

BUY ratings 72%

NEUTRAL ratings 0%

SELL ratings 28%

Research Disclosure Legend

1	Bryan Garnier shareholding in Issuer	Bryan Garnier & Co Limited or another company in its group (together, the "Bryan Garnier Group") has a shareholding that, individually or combined, exceeds 5% of the paid up and issued share capital of a company that is the subject of this Report (the "Issuer").	No
2	Issuer shareholding in Bryan Garnier	The Issuer has a shareholding that exceeds 5% of the paid up and issued share capital of one or more members of the Bryan Garnier Group.	No
3	Financial interest	A member of the Bryan Garnier Group holds one or more financial interests in relation to the Issuer which are significant in relation to this report	No
4	Market maker or liquidity provider	A member of the Bryan Garnier Group is a market maker or liquidity provider in the securities of the Issuer or in any related derivatives.	No
5	Lead/co-lead manager	In the past twelve months, a member of the Bryan Garnier Group has been lead manager or co-lead manager of one or more publicly disclosed offers of securities of the Issuer or in any related derivatives.	No
6	Investment banking agreement	A member of the Bryan Garnier Group is or has in the past twelve months been party to an agreement with the Issuer relating to the provision of investment banking services, or has in that period received payment or been promised payment in respect of such services.	No
7	Research agreement	A member of the Bryan Garnier Group is party to an agreement with the Issuer relating to the production of this Report.	No
8	Analyst receipt or purchase of shares in Issuer	The investment analyst or another person involved in the preparation of this Report has received or purchased shares of the Issuer prior to a public offering of those shares.	No
9	Remuneration of analyst	The remuneration of the investment analyst or other persons involved in the preparation of this Report is tied to investment banking transactions performed by the Bryan Garnier Group.	No
10	Corporate finance client	In the past twelve months a member of the Bryan Garnier Group has been remunerated for providing corporate finance services to the issuer or may expect to receive or intend to seek remuneration for corporate finance services from the Issuer in the next six months.	No
11	Analyst has short position	The investment analyst or another person involved in the preparation of this Report has a short position in the securities or derivatives of the Issuer.	No
12	Analyst has long position	The investment analyst or another person involved in the preparation of this Report has a long position in the securities or derivatives of the Issuer.	No
13	Bryan Garnier executive is an officer	A partner, director, officer, employee or agent of the Bryan Garnier Group, or a member of such person's household, is a partner, director, officer or an employee of, or adviser to, the Issuer or one of its parents or subsidiaries. The name of such person or persons is disclosed above.	No
14	Analyst disclosure	The analyst hereby certifies that neither the views expressed in the research, nor the timing of the publication of the research has been influenced by any knowledge of clients positions and that the views expressed in the report accurately reflect his/her personal views about the investment and issuer to which the report relates and that no part of his/her remuneration was, is or will be, directly or indirectly, related to the specific recommendations or views expressed in the report.	Yes
15	Other disclosures	Other specific disclosures: Report sent to Issuer to verify factual accuracy (with the recommendation/rating, price target/spread and summary of conclusions removed).	No

A copy of the Bryan Garnier & Co Limited conflicts policy in relation to the production of research is available at www.bryangarnier.com

London	Paris	New York	Geneva	New Delhi	
Beaufort House	26 Avenue des Champs Elysées	750 Lexington Avenue	rue de Grenus 7	The Imperial Hotel	
15 St. Botolph Street	75008 Paris	New York, NY 10022	CP 2113	Janpath	
London EC3A 7BB	Tel: +33 (0) 1 56 68 75 00	Tel: +1 (0) 212 337 7000	Genève 1, CH 1211	New Delhi 110 001	
Tel: +44 (0) 207 332 2500	Fax: +33 (0) 1 56 68 75 01	Fax: +1 (0) 212 337 7002	Tel +4122 731 3263	Tel +91 11 4132 6062	
Fax: +44 (0) 207 332 2559	Regulated by the	FINRA and SIPC member	Fax+4122731 3243	+91 98 1111 5119	
Authorised and regulated by the	Financial Conduct Authority (FCA) and		Regulated by the	Fax +91 11 2621 9062	
Financial Conduct Authority	the Autorité de Contrôle prudential et de		FINMA		
(FCA)	resolution (ACPR)				

Important information

This document is classified under the FCA Handbook as being investment research (independent research). Bryan Garnier & Co Limited has in place the measures and arrangements required for investment research as set out in the FCA's Conduct of Business Sourcebook.

This report is prepared by Bryan Garnier & Co Limited, registered in England Number 03034095 and its MIFID branch registered in France Number 452 605 512. Bryan Garnier & Co Limited is authorised and regulated by the Financial Conduct Authority (Firm Reference Number 178733) and is a member of the London Stock Exchange. Registered address: Beaufort House 15 St. Botolph Street, London EC3A 7BB, United Kingdom

This Report is provided for information purposes only and does not constitute an offer, or a solicitation of an offer, to buy or sell relevant securities, including securities mentioned in this Report and options, warrants or rights to or interests in any such securities. This Report is for general circulation to clients of the Firm and as such is not, and should not be construed as, investment advice or a personal recommendation. No account is taken of the investment objectives, financial situation or particular needs of any person.

The information and opinions contained in this Report have been compiled from and are based upon generally available information which the Firm believes to be reliable but the accuracy of which cannot be guaranteed. All components and estimates given are statements of the Firm, or an associated company's, opinion only and no express representation or warranty is given or should be implied from such statements. All opinions expressed in this Report are subject to change without notice. To the fullest extent permitted by law neither the Firm nor any associated company accept any liability whatsoever for any direct or consequential loss arising from the use of this Report. Information may be available to the Firm or an associated companies which are not reflected in this Report. The Firm or an associated company may have a consulting relationship with a company which is the subject of this Report.

This Report may not be reproduced, distributed or published by you for any purpose except with the Firm's prior written permission. The Firm reserves all rights in relation to this Report.

Past performance information contained in this Report is not an indication of future performance. The information in this report has not been audited or verified by an independent party and should not be seen as an indication of returns which might be received by investors. Similarly, where projections, forecasts, targeted or illustrative returns or related statements or expressions of opinion are given ("Forward Looking Information") they should not be regarded as a guarantee, prediction or definitive statement of fact or probability. Actual events and circumstances are difficult or impossible to predict and will differ from assumptions. A number of factors, in addition to the risk factors stated in this Report, could cause actual results to differ materially from those in any Forward Looking Information.

Disclosures specific to clients in the United Kingdom

This Report has not been approved by Bryan Garnier & Co Limited for the purposes of section 21 of the Financial Services and Markets Act 2000 because it is being distributed in the United Kingdom only to persons who have been classified by Bryan Garnier & Co Limited as professional clients or eligible counterparties. Any recipient who is not such a person should return the Report to Bryan Garnier & Co Limited and should not rely on it for any purposes whatsoever. Notice to US investors

This research report (the "Report") was prepared by Bryan Garnier & Co Limited for information purposes only. The Report is intended for distribution in the United States to "Major US Institutional Investors" as defined in SEC Rule 15a-6 and may not be furnished to any other person in the United States. Each Major US Institutional Investor which receives a copy of this Report by its acceptance hereof represents and agrees that it shall not distribute or provide this Report to any other person. Any US person that desires to effect transactions in any security discussed in this Report should call or write to our US affiliated broker, Bryan Garnier Securities, LLC. 750 Lexington Avenue, New York NY 10022. Telephone: 1-212-337-7000.

This Report is based on information obtained from sources that Bryan Garnier & Co Limited believes to be reliable and, to the best of its knowledge, contains no misleading, untrue or false statements but which it has not independently verified. Neither Bryan Garnier & Co Limited and/or Bryan Garnier Securities LLC make no guarantee, representation or warranty as to its accuracy or completeness. Expressions of opinion herein are subject to change without notice. This Report is not an offer to buy or sell any security.

Bryan Garnier Securities, LLC and/or its affiliate, Bryan Garnier & Co Limited may own more than 1% of the securities of the company(ies) which is (are) the subject matter of this Report, may act as a market maker in the securities of the company(ies) discussed herein, may manage or co-manage a public offering of securities for the subject company(ies), may sell such securities to or buy them from customers on a principal basis and may also perform or seek to perform investment banking services for the company(ies).

Bryan Garnier Securities, LLC and/or Bryan Garnier & Co Limited are unaware of any actual, material conflict of interest of the research analyst who prepared this Report and are also not

aware that the research analyst knew or had reason to know of any actual, material conflict of interest at the time this Report is distributed or made available ...