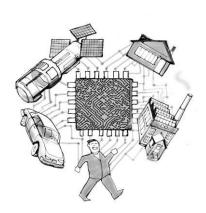
Sector View

Semiconductors

A strong start to Q3 with July well above historical seasonality and a positive view on August

	1 M	3 M	6 M	31/12/15
Semiconductors	0.6%	20.6%	24.7%	20.4%
DJ Stoxx 600	2.7%	1.2%	2.8%	-4.2%
*Stoxx Sector Indices				

Companies c	overed		
ams		NEUTRAL	CHF29
Last Price	CHF33	Market Cap.	CHF2,422m
ASML		SELL	EUR81
Last Price	EUR96.23	Market Cap.	EUR41,700m
DIALOG		BUY	EUR37
Last Price	EUR32.499	Market Cap.	EUR2,531m
INFINEON		BUY	EUR16
Last Price	EUR14.82	Market Cap.	EUR16,783m
MELEXIS		SELL	EUR48
Last Price	EUR60.26	Market Cap.	EUR2,435m
SOITEC		NEUTRAL	EUR0.5
Last Price	EUR0.8	Market Cap.	EUR485m
STMICROELE	CTRONICS	NEUTRAL	EUR6.5
Last Price	EUR6.81	Market Cap.	EUR6,204m
u-blox		BUY	CHF255
Last Price	CHF219.1	Market Cap.	CHF1,491m



July sales came out better than the seasonal average. According to WSTS data, unadjusted global semiconductor sales stood at USD27.7bn, down 2.1% on a sequential basis and up 4.6% on a yearly basis. This was 720bps above our 5-y historical benchmark pointing to a sequential decrease of 9.3% in July. Computer processors, DRAM and flash memory were particularly strong in July while analogue was broadly in line with seasonal figures. Overall, seven-month aggregated sales fell 4.5% yoy but continued to improve as expected (YTD sales were down 6.5% in May). We expect sales to continue to improve thanks to an easier comparison basis in H2.

ANALYSIS

- Strong July data showed an uptick in worldwide sales but this was not really a surprise. Unadjusted global semiconductor sales bounced back and increased on a yoy basis to USD27.7bn (up 4.6%). On a sequential basis, unadjusted global sales were down 2.1% in July compared to June. This was well above our benchmark based on five-year historical data showing an historical seasonal decrease in sales of 9.3% in July compared to June. As a result, 2016 seven-month sales came out 4.5% lower than in 2015, i.e. making up 2015 data as expected. Indeed, note that based on the visibility we now have, we expect 2016 worldwide semiconductor sales to fall slightly. We continue to see a healthy environment in the Automotive and Industrial sectors so far, while the Smartphone market remains bumpy. First data on the success of the iPhone 7 will give more colour about late-2016 momentum.
- Asia-Pacific was particularly strong in July. Sales in Asia (about 60% of semiconductor billings, o/w ~50% in China), were up 9% yoy in July. Conversely, European and US sales fell 2 and 3% respectively while Japan was almost flat yoy.
- August and beyond: August data could harbour positive surprises. July sales came out better than historical seasonality but in line with our expectations. In view of current visibility, we expect August sales to be slightly above historical seasonality (i.e. a sequential increase of 1.4%, +/-300bp). We continue to expect Smartphone sales to be bumpy although the first data from Taiwan points to a continuous improvement in momentum in this market. Six-month vehicle production remains healthy, with production of light vehicles up 6.5%, of which +7% yoy in China and +10% in Europe (however, the US, which accounts for a quarter of Chinese production and a third of European production, decreased by 6%). Our mid-term view has not changed and we continue to expect better momentum in H2 2016 thanks to better comparison in Automotive and Smartphones. Nevertheless, we note that ISM data for August was not particularly encouraging with the US PMI Manufacturing index at 49.4 compared with 52.6 in July. Note that we started the year with January PMI at 48.2. Chinese data also dipped slightly in August after a rebound in July with Markit PMI Manufacturing at 50.0 compared with 50.6 in July (48.4 in January) while the German Industrial production (IFO) data are also unsupportive in August (down 2.0% yoy). Overall, the semiconductor environment appears to be temporarily better than the overall industrial backdrop for August.

VALUATION

• The 2016e P/E valuation improved significantly in August. Our semiconductor valuation table shows that the overall valuation between the six sub-sectors of the industry continued to improve slightly in August. On average, IP & EDA vendors, and Fabless maintained the highest valuation metrics (driven by ARM acquisition) with average 2016e P/E ratios of 24.7x and 23.0x respectively (from 20.3x and 19.8x a month ago). Conversely, Foundry makers have the lowest valuation with an average 2016e P/E ratios of 13.1x (up from 11.9x a month ago). IDMs average P/E ratios also increased to 17.3x respectively (vs. 15.5x a month ago).

BG semiconductor sub-sector valuation table

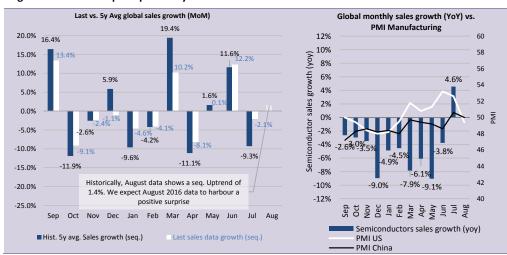
	YTD stocks perf.		2016e			
Subsector (# of comp.)	Avg. / Median	High / Low	EV/Sales	EV/EBITDA	EV/EBIT	P/E
Fabless (14)	21.9% / 14.6%	89.7% / -26.1%	2.7x	10.9x	14.8x	23.0x
Logic & Analog IDM (17)	14.8% / 11.1%	58.3% / -14.3%	3.3x	9.6x	12.7x	17.3x
Memory IDM (4)	25.3% / 24.7%	33.8% / 17.9%	0.9x	3.8x	6.4x	16.2x
Foundry (5)	13.3% / 10.1%	28.1% / -3.7%	1.6x	4.3x	13.3x	13.1x
Semi Equipmt & Materials (11)	14.1% / 6.9%	60.8% / -5.5%	2.2x	8.9x	10.0x	15.9x
Intellectual Property & EDA (10)	42.4% / 41.5%	77.5% / 12.6%	5.7x	17.0x	22.1x	24.7x

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

• August 2016 WSTS global billing reports, expected for early October.

August data could surprise positively



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 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").	
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.	
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	
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.	
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.	
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.	
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.	
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.	
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
Beaufort House
15 St. Botolph Street
London EC3A 7BB
Tel: +44 (0) 207 332 2500
Fax: +44 (0) 207 332 2559
Authorised and regulated by the
Financial Conduct Authority (FCA)

Paris 26 Avenue des Champs Elysées 75008 Paris Tel: +33 (0) 1 56 68 75 00 Fax: +33 (0) 1 56 68 75 01 Regulated by the Financial Conduct Authority (FCA) and the Autorité de Contrôle prudential et de resolution (ACPR)

New York 750 Lexington Avenue New York, NY 10022 Tel: +1 (0) 212 337 7000 Fax: +1 (0) 212 337 7002 FINRA and SIPC member

Munich Widenmayerstrasse 29 80538 Munich Germany +49 89 2422 62 11

New Delhi The Imperial Hotel Janpath New Delhi 110 001 Tel +91 11 4132 6062 +91 98 1111 5119 Fax +91 11 2621 9062 Geneva rue de Grenus 7 CP 2113 Genève 1, CH 1211 Tel +4122 731 3263 Fax+4122731 3243 Regulated by the FINMA

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 and/or 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 immediately 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.