



### Company Profile

**Industry:** Semiconductor Foundry Services

**Date Incorporated:** May, 1980

**About UMC:** UMC (NYSE: UMC, TSE: 2303) is a leading global semiconductor foundry that provides advanced technology and manufacturing services for applications spanning every major sector of the IC industry. UMC's customer-driven foundry solutions allow chip designers to leverage the strength of the company's leading-edge processes, which include production proven 65nm, 45/40nm, mixed signal/RFCMOS, and a wide range of specialty technologies. Production is supported through 10 wafer manufacturing facilities that include two advanced 300mm fabs; Fab12A in Taiwan and Singapore-based Fab12i are both in volume production for a variety of customer products. The company employs approximately 12,000 people worldwide and has offices in Taiwan, Japan, Singapore, Europe, and the United States. UMC can be found on the web at <http://www.umc.com>.

### UMC 2009 IEDM on 28nm Hybrid HK/MG

#### Top Story: UMC 2009 IEDM on 28nm Hybrid HK/MG

**TOP STORIES** DECEMBER 15, 2009

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**UMC Takes Hybrid Approach to 28 nm High-k**

The graph shows  $I_{off} [A/\mu m]$  on the y-axis (log scale from  $10^{-12}$  to  $10^{-5}$ ) versus  $I_{on}$  on the x-axis (log scale from  $10^{-12}$  to  $10^{-5}$ ). Two data series are shown: "GF" (blue triangles) and "Hybrid" (orange diamonds). An arrow points from the GF series to the Hybrid series, indicating a  $\sim 30\%$  improvement in  $I_{off}$  for the same  $I_{on}$ .

### Chronology

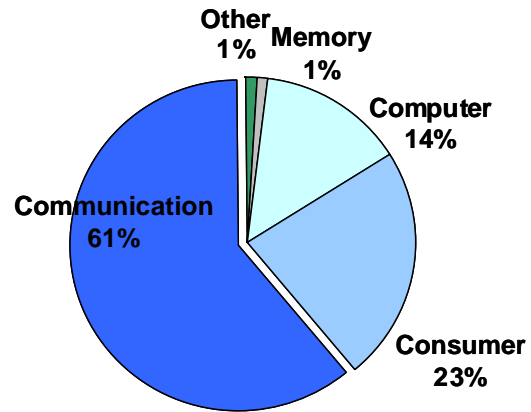
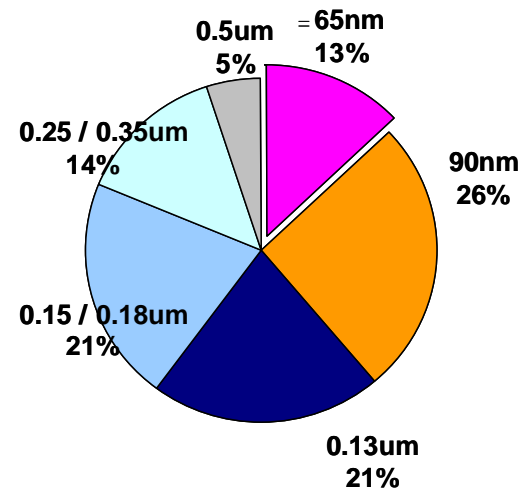
1980	May	UMC established
1985	Jul	Becomes the first IC company to list on the Taiwan Stock Exchange
1995	Jul	Begins transformation into a pure-play foundry
	Jul–Sep	Establishes three joint venture foundries; USC, UICC, USIC
1998	Apr	Acquires Holtek Semiconductor
	Dec	Acquires Nippon Steel Semiconductor Corp.; renamed UMCJ in 2001
1999	Nov	Begins construction of a 300mm fab in Taiwan's Tainan Science Park, Fab 12A
2000	Jan	Consolidates five companies: UMC, USC, UTEK, USI, and UICC
	May	Produces foundry industry's first 0.13um ICs
	Sep	Debuts on the New York Stock Exchange
	Dec	Announces plan to establish advanced 300mm foundry in Singapore (UMCi)
2003	Mar	Delivers foundry's first customer ICs built on 90nm
2004	May	90nm full qualification and volume production
	Jul	Completes acquisition of SiS Microelectronics Corp.
	Dec	Fully acquires its subsidiary UMCi; renames UMC Fab 12i
2005	Jun	Delivered the foundry industry's first 65nm customer products
	Aug	Achieves record milestone of over 100,000 90nm wafer shipments
2006	Jun	Becomes first IC company to achieve QC080000 IECO HSPM qualification for all fabs
	Nov	Produces working 45nm ICs
2007	Jan	Expands advanced technology complex in Tainan Science Park
2008	Sep	Named as a Global Index Component for Dow Jones Sustainability Indexes
2009	Apr	Delivers 40-nanometer customer ICs
	Dec	Fully acquires Japan subsidiary UMCJ



## Financial Highlights

	2009	2008	2007	2006	2005
<b>Income Statement (NT\$ billion)</b>					
Net Operating Revenue	88.6	92.5	106.8	104.1	90.8
Gross Profit	15.9	15.6	22.5	20.7	11.2
Operating Income(Loss)	3.3	2.3	6.8	6.1	(2.7)
Net Income(Loss)	3.9	(22.3)	17.0	32.6	7.0
<b>Balance Sheet (NT\$ billion)</b>					
Total Assets	251.9	208.0	290.8	355.2	326.2
Cash and Cash equ.	52.8	36.1	37.5	83.4	96.6
Total Liabilities	38.3	23.3	54.3	64.0	67.9
Long-term Liabilities	0.8	8.1	7.6	30.4	36.0
Stockholders' Equity	213.6	184.7	236.5	291.2	258.3
<b>Cash Flow Statement (NT\$ billion)</b>					
Cash Flow from Operations	32.5	44.8	46.8	46.0	45.9
Cash Flow from Investing	(20.6)	(12.3)	(23.7)	(15.9)	(7.7)
Cash Flow from Financing	5.0	(34.0)	(68.9)	(43.3)	(25.0)
Net Cash Flow	16.7	(1.3)	(45.9)	(13.2)	13.2
Free Cash Flow	14.9	33.4	18.7	14.9	49.8
<b>Financial Analysis (%)</b>					
Debt Ratio	15.2	11.2	18.7	18.0	21.6
Current Ratio	259.5	469.7	157.9	392.0	450.9
Quick Ratio	230.6	394.7	130.1	350.1	402.7

## 2009 Revenue Breakdown



## UMC Fab12A 300mm Complex



LAST UPDATED: March, 2010

## Research Coverage

BNP Paribas
CLSA
Credit Suisse
Daiwa
Deutsche Securities
Goldman Sachs
HSBC
JP Morgan
Macquarie Securities
Mirae
Merrill Lynch
Morgan Stanley
Nomura Asia
RBS
UBS