TOMERAL

The Global Specialty Foundry Leader

Company Overview, Performance and Strategy

NASDAQ/ TASE: TSEM

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Company Highlights

TowerJazz: the global specialty foundry leader

- Manufacture analog IC in growing markets such as consumer, automotive, medical, industrial, and aerospace & defense
- Offer advanced specialty process technologies including RF/HPA, PM, CIS, MS/CMOS, and MEMS capabilities



Strong performance & financials

- Annual revenue run rate of >\$1B with continuous Q/Q revenue growth
- Substantial margins increase with sustainable model for growing net profit
- Strong balance sheet and financial ratios

6 WW manufacturing facilities | 4,000 employees | Over 300 customers



Foundry Landscape

| (\$M) | 2005 | | 2010 | | 2014 | | Accumulated Growth |
|-------|-----------|-------|-----------------|--------|-----------------|--------|-----------------------|
| А | TSMC | 8,217 | TSMC | 13,307 | TSMC | 24,976 | 204% |
| В | UMC | 3,259 | UMC | 3,965 | GlobalFoundries | 4,355 | 285% |
| С | SMIC | 1,171 | GlobalFoundries | 3,510 | UMC | 4,350 | 33% |
| D | PowerChip | 1,587 | PowerChip | 2,424 | SMIC | 1,970 | 68% |
| Е | Chartered | 1,132 | SMIC | 1,555 | PowerChip | 1,282 | -19% |
| 1 | Vanguard | 353 | TowerJazz | 509 | TowerJazz | 828 | 712% |
| 2 | Dongbu | 347 | Vanguard | 505 | Vanguard | 790 | 124% |
| 3 | HHNEC | 313 | Dongbu | 495 | Hua Hong Semi | 685 | 119% |
| 4 | SSMC | 280 | SSMC | 330 | Dongbu HiTek | 541 | 56% |
| 5 | He Jian | 250 | X-Fab | 320 | X-Fab | 330 | 63% |

Digital Deep Sub Micron

Tower

Specialty Analog

Source: IC Insights, EE Times, Company Reports

102

The fastest growing foundry in the world



11

2015: Year in Review - Financials

(based on Q4'2015 guidance)

Revenue growth

- Record revenues and quarter over quarter increase with strong organic growth
- Annual revenues run rate of over \$1B

GAAP net profit

Sustainable business and financial model for net profit growth

Margins increase

- Non-GAAP gross margins increased from 27% (post TPSCo creation) to 40% (Q4'15 target)
- Annual EBITDA run rate of over \$250M

Strong balance sheet and financial ratios

- Debt and net debt reduction of over \$200M
- Net debt/ EBITDA ratio < 0.6X

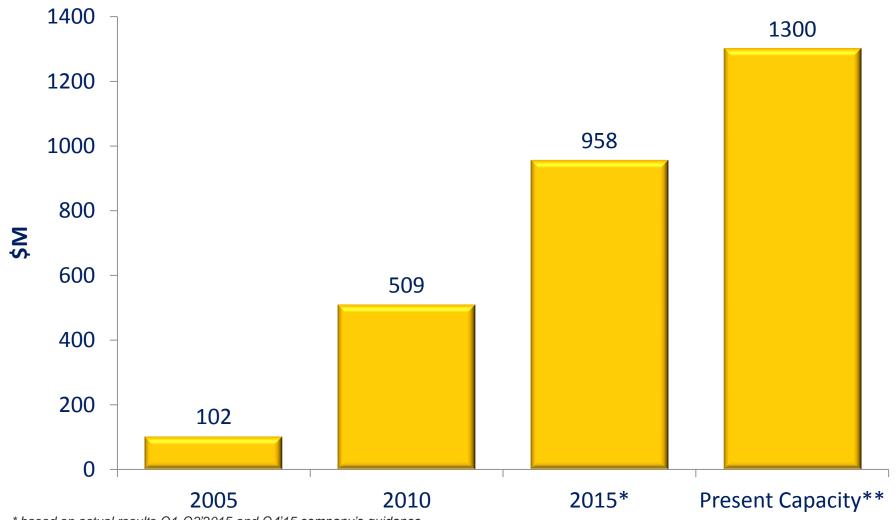


2016 Focuses

- Continued revenue growth
 - Special focus on SA new fab and TPSCo 3rd party business
- Maximized free cash flow
- Increasing net profit
- Margins growth
- Cap-Ex investments for growth to meet excess customer demand:
 - Customer funded programs for capacity reservation
 - Assured mid to short term ROI
 - Full utilization of potential cross qualification between our fabs



Annual Revenues



^{*} based on actual results Q1-Q3'2015 and Q4'15 company's guidance



^{**} Based on existing capacity capability, excluding San Antonio fab

Worldwide Manufacturing Facilities

TOWERJAZZ



Midgal HaEmek, Israel

6", 150mm, 16K w/m CMOS, CIS, Power, Discrete 1µm to 0.35µm



Midgal HaEmek, Israel

8", 200mm, 43K w/m CMOS, CIS, Power, Discrete, MEMS 0.18µm to 0.13µm Cu



Newport Beach, USA

8", 200mm, 24K w/m CMOS, CIS, MEMS, RF Analog 0.5 µm to 0.13µm





Arai, Japan

8", 200mm, 14K w/m Analog, CIS 0.13µm to 0.11µm Thick Cu RDL



Tonami, Japan

8", 200mm, 51K w/m Power Discrete, NVM, CCD 0.35µm to 0.15µm



Uozu, Japan

12", 300mm, 20K w/m (8" equiv.) CMOS, CIS, RF 65nm to 45nm

> 2 million wafers per year and growing!



Meeting our strong customer demand





- Enables offloading between our worldwide fabs
- Opens capacity in Fab2 and Fab3 whilst substantially increasing TPSCo utilization
- 300mm BSI at TPSCo

Investing in capacity



- Self funded expansions in Fab2 and Fab3
- Customer funded business model (\$45M)
- **M&A opportunities** for additional capacity **\sqrt{**



Business model to include committed revenue by the seller



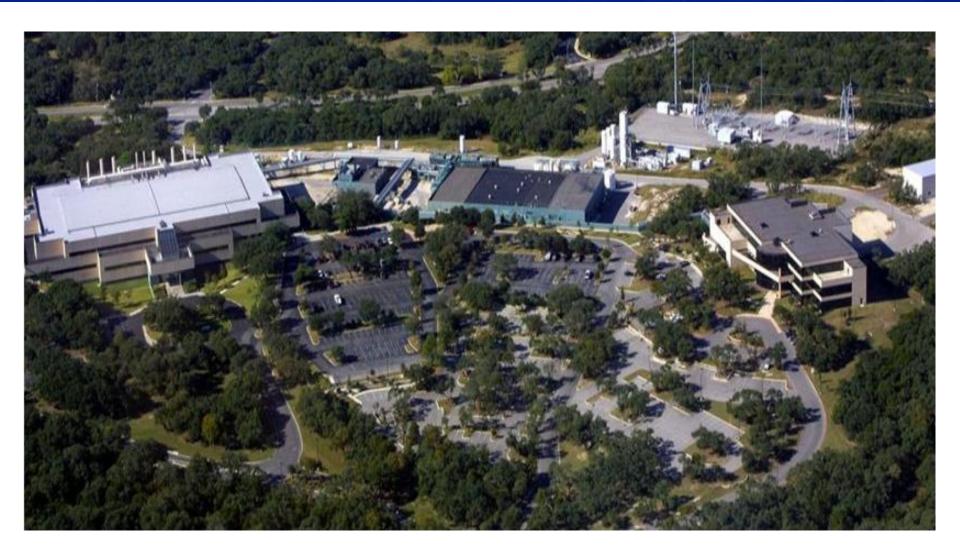
Press Release | November 18th, 2015

TowerJazz to Expand its Worldwide Manufacturing Capabilities with Proposed Acquisition of Maxim Integrated's Wafer Manufacturing Plant in Texas, US

San Antonio Analog Fab to Support TowerJazz's Strong Customer Demand and Enable Additional Manufacturing Flexibility



San Antonio Wafer Fab Aerial View





Core TowerJazz Analog Specialty Offering



TowerJazz Business Units - Specialty Technology Leader





RF HPA Markets and Solutions



Wireless Front-Ends
RF SOI and SiGe LNA/PA

High Growth driven by Smartphones and IoT



Wireline Front-Ends
High Performance SiGe

High Growth driven by video, data internet traffic



mmWave
High Performance SiGe

Emerging Value driven by radar and other high-frequency applications

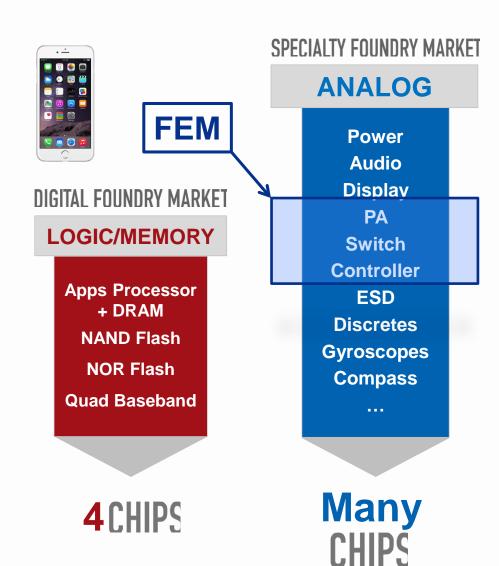


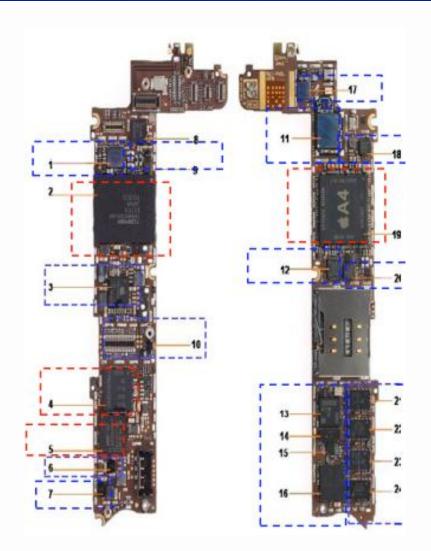
High Performance
Analog
Complementary BiCMOS

Steady Volume driven by cloud-based HDD and analog component market



Analog Market Opportunity

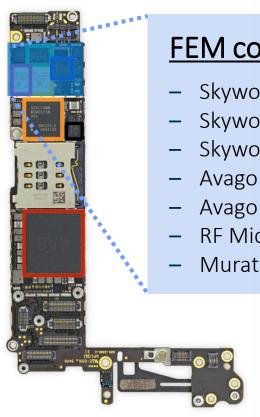






Wireless FEM content example

iPhone 6



FEM content from ifixit teardown:

- Skyworks 77802-23 Low Band LTE PAD
- Skyworks 77803-20 Mid Band LTE PAD
- Skyworks 77356-8 Mid Band PAD
- Avago A8020 High Band PAD
- Avago A8010 Ultra High Band PA + FBARs
- RF Micro Devices RF5159 Antenna Switch Module
- Murata 339S0228 Wi-Fi Module



TowerJazz FEM Solutions:

RF SOI (Switches), SiGe (LNA/PA), RF CMOS (control)

Market Growth Prospect

- FEM content per phone growing with each generation
- Technology shift (GaAs to SOI/SiGe/CMOS) continues
- TowerJazz technology is in a leading position



Power Markets and Solutions



Display, Audio, Touch, Power Management

0.18um BCD Technology

High Volume driven by consumer device growth



Automotive & Communication

0.18um BCD + NVM and digital

High Value driven by more integrated power



LED Lighting

700V Power Technology

Emerging Market in low energy lighting for power semiconductors



Industrial & Infrastructure

High Power Modules

High Power motor drivers



Specialty CIS Key Markets and Solutions

Technology, Flexibility, Experience and Commitment allows our customers to bring to the market the best in class products

Professional Photography

Highest requirements for image quality Large sensors, very high resolution, demanding frame rate Very low defect count Very high sensitivity, dynamic range & low noise







Medical X-Ray

Market Leader for dental x-ray CMOS Supplying all Tier-1 vendors Smallest endoscopy solution







Industrial & High Speed

High speed and high accuracy Global shutter technology "Intelligent" pixels 2D and line sensors









Automotive & Security

High sensitivity and high dynamic range High NIR sensitivity Linear HDR for color imagers



3D Gesture Control

Design wins with market leaders High volume and yet good margin market High NIR sensitivity ToF and structured light solutions





Market MEGATRENDS driven by Internet of Things

Key megatrends driving rapid growth in Analog/Mixed-Signal applications



Analog/Mixed-Signal Applications

High-Performance Analog

Power Management

RF

Sensors (Imaging, MEMS)

IoT demands diverse silicon chips with integrated sensors, memories, processors, energy harvesting blocks, communication means, interfaces and security systems.

This will extend the markets of mobile applications, power management and data processing, opening new business opportunities for TowerJazz.



10 Year Anniversary

| Financials | 2005 | Present Run Rate |
|---|------|------------------|
| Revenues \$M | 100 | 1,000 |
| Net Debt \$M (exc. In the money converts) | 550 | 70 |
| Market Cap \$M | 150 | 1,500 |

| Operations* | 2005 | Present Run Rate | |
|---------------|------|---------------------------|--|
| # of Fabs | 2 | 7 | |
| Locations | 1 | 3 continents/ 6 locations | |
| Capacity KWPM | 290 | 2,350 | |
| Employees | 900 | 4,500 | |
| Customers | ~30 | >300 | |

^{*} Including SA Fab



Summary

Well Positioned in Growth Markets

- RF SOI and SiGe for wireless smartphone, IoT, and data networks
- CMOS Image Sensor and 3D Gesturing
- Power management and conversion
- Strong available capacity in TPSCo and investing in additional capacity

Driving Strong Financial Performance

- Strong revenue growth throughout 2015 with expected growth in 2016
- Sustainable business and financial model for margins and net profit growth
- Strong balance sheet and financial ratios
- Free cash flow "state of mind"



TIMETALL www.towerjazz.com