

SECTOR: TECHNOLOGY
INDUSTRY: SEMICONDUCTORS

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Himax Technologies, Inc. (NASDAQ: HIMX) is a fabless semiconductor solution provider dedicated to display imaging processing technologies. Himax is a worldwide market leader in display driver ICs and timing controllers used in TVs, laptops, monitors, mobile phones, tablets, digital cameras, car navigation, virtual reality (VR) devices and many other consumer electronics devices. Additionally, Himax designs and provides controllers for touch sensor displays, in-cell Touch and Display Driver Integration (TDDI) single-chip solutions, LED driver ICs, power management ICs, scaler products for monitors and projectors, tailor-made video processing IC solutions, silicon IPs and LCOS micro-displays for augmented reality (AR) devices and heads-up displays (HUD) for automotive. The Company also offers digital camera solutions, including CMOS image sensors and wafer level optics for AR devices, 3D sensing and machine vision, which are used in a wide variety of applications such as mobile phones, tablets, laptops, TVs, PC cameras, automobiles, security, medical devices, home appliances and Internet of Things. Founded in 2001 and headquartered in Tainan, Taiwan, Himax currently employs around 2,000 people from three Taiwan-based offices in Tainan, Hsinchu and Taipei and country offices in China, Korea, Japan, Israel and the US. Himax has 2,915 patents granted and 551 patents pending approval worldwide as of September 30, 2020. Himax has retained its position as the leading display imaging processing semiconductor solution provider to consumer electronics brands

Investment Highlights

- **Leading Human Interface and Display Technologies Innovator**
- **Innovative New Products Capturing Growth Markets**
- **Diversified Base of Customers and Revenues**
- **Visionary Management Team**

Financial Summary	3Q2020	2Q2020	3Q2019	YoY	QoQ
Revenues	\$239.9M	\$187.0M	\$164.3M	+46.1%	+28.3%
Gross Margin (%)	22.3%	21.0%	19.5%	+2.8%	+1.3%
IFRS Profit (Loss)	\$8.5M	\$1.4M	(\$7.2M)	+217.7%	+511.1%
IFRS Earnings (Loss) per ADS	\$0.049	\$0.008	(\$0.042)	+217.1%	+510.0%
Non-IFRS Profit (Loss)	\$12.6M	\$1.7M	(\$6.9M)	+282.6%	+627.1%
Non-IFRS Earnings (Loss) per ADS	\$0.073	\$0.010	(\$0.04)	+281.6%	+625.9%

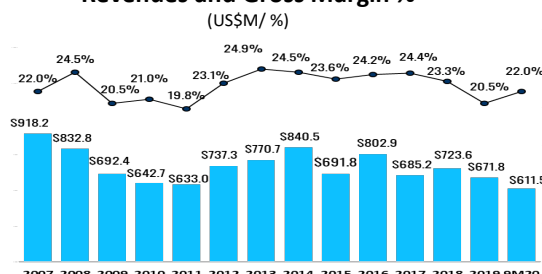
SELECT FINANCIALS

Fiscal Year	Dec. 31st
Last-Traded Price (11/11/20)	\$4.10
Market Cap. (11/11/20)	\$706.8M
Daily Vol.	~1.55M
Basic Weighted Avg. Out. ADS	172.7M
Cash (09/30/20)	\$131.8M
2019 Revenues	\$671.8M
2019 IFRS (Loss)	(\$13.6M)
2019 IFRS EPS (Loss)	(\$0.079) per ADS
Legal	Davis Polk & Wardewill
Auditor	KPMG
# Analyst Coverage	6

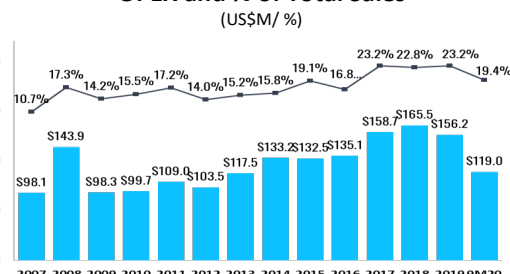
4Q2020 Guidance

Revenues	Increase by around 10% sequentially
Gross Margin (%)	Around 29%, depending on our final product mix
IFRS Profit (Loss)	To be around 15.0 cents to 16.0 cents
Non-IFRS Profit (Loss)	To be around 15.1 cents to 16.1 cents

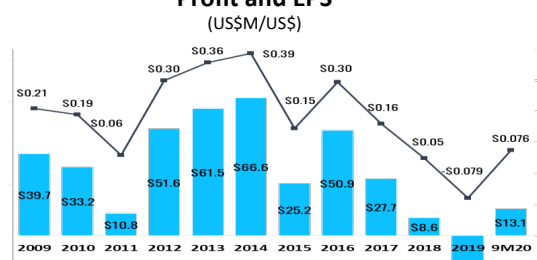
Revenues and Gross Margin %



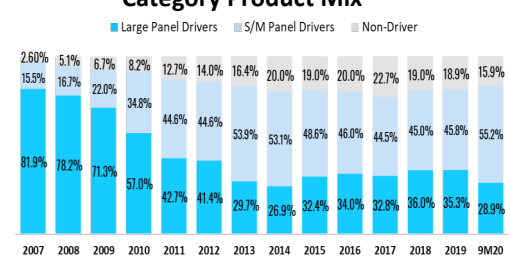
OPEX and % of Total Sales



Profit and EPS



Category Product Mix



Core Product Lines - Growth Opportunities



Display Driver IC (DDIC)

We are a leader in display driver ICs used to enable flat panel display in TFT and Touch in large, small and medium-sized display panels

Strategies and Market Position

- Leading market share of large DDIC in China
- Provide both leading-edge Tcon and DDIC solutions
- Major beneficiary of Industry and Korean fab restructuring which will increase Chinese panel maker's global market share
- Increased shipments of 4K solutions and collaboration with major panel makers on the development of next generation 8K TVs
- For next generation display for smartphone and automotive, Himax is the leader in key technologies such as TDDI, local dimming and timing controller
- 8K TV is a strategic area for Himax due to its higher display driver



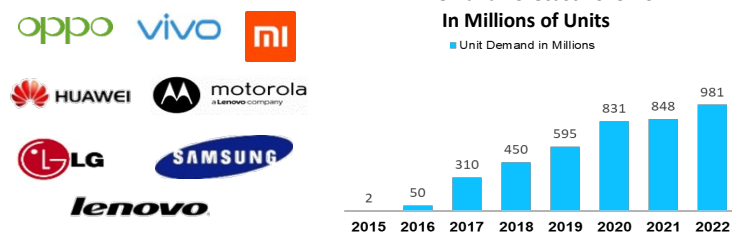
In-Cell Touch and Display Driver Integration (TDDI)

We design technologies for touch sensor displays including in-cell touch and the fast-growing segment of Display Driver Integration (TDDI) single-chips

Strategies and Market Position

- Numerous new design-wins and shipment with top-tier smartphone and tablet makers and most panel makers in China starting 4Q19. Expect robust growth by increasing market share from 5% to around 15% in 2020
- With In-cell TDDI becoming mainstream for tablet, Himax is the primary source for Android tablets. MP started for major tier-1 OEMs in 4Q19, with growth continuing into 2020 and beyond
- New generation FHD+ TDDI with COF package to enable super-slim bezel design for premium smartphone and tablet models
- Himax is the dominant automotive TDDI technology provider with mass production experience for leading panel makers. Although only small volume shipments in 2020, we anticipate meaningful shipment volume to ramp up moving into 2021
- Higher ASP and better margin than traditional driver IC

TDDI Demand Forecast 2015-2022



Management Team

Dr. Biing-Seng Wu, Chairman of the Board - Dr. Wu, the founder of Himax, previously served as President, CEO and a Director of Himax Taiwan. As a pioneer of TFT-LCD panel industry in Taiwan, Dr. Wu has been active in the TFT-LCD panel industry for over 20 years. With 61 patents related to Flat Panel Display granted worldwide, Dr. Wu has made significant contributions to Taiwan panel industry including the completion and operation of Taiwan's very first TFT-LCD plant, the winner of Outstanding Industry Contribution Award at the Gold Panel Awards 2009 from Ministry of Economic Affairs, etc. Dr. Wu holds a B.S. degree, an M.S. Degree and a Ph.D. Degree in Electrical Engineering from National Cheng Kung University. With well-recognized outstanding research and development capabilities, Dr. Wu received numerous awards including National Invention Award of Taiwan from Taiwan Executive Yuan in 1992, Research Achievement Awards from Industrial Technology Research Institute for two consecutive years in 1992 and 1993, ERSO Award from Pan Wen Yuan Foundation in 2008.

Jordan Wu, President, CEO and Director - Mr. Jordan Wu, co-founder of Himax, previously served as the chairman of the board of Himax Taiwan from April 2003 to October 2005. Prior to joining Himax Taiwan, he served as CEO of TV Plus Technologies, Inc. and CFO and executive director of DVN Holdings Ltd. in Hong Kong. Prior to that, he was an investment banker in Hong Kong with Merrill Lynch (Asia Pacific) Limited, Barclays de Zoete Wedd (Asia) Limited and Baring Securities. Mr. Wu holds a B.S. degree in Mechanical Engineering from National Taiwan University and an M.B.A. degree from the University of Rochester.

Jessica Pan, Chief Financial Officer - Jessica joined Himax in 2006 with over 22 years of experience in finance and accounting. Jessica has played an integral role at Himax on finance, accounting, financial planning and analysis, forecasting and tax, having served as interim Chief Financial Officer from October 2010 to January 2012. Prior to joining Himax, Jessica worked as Assistant Finance Manager for Advanced Semiconductor Engineering, Inc. from 2002 to 2006 and as Auditor at Arthur Andersen LLP in Taiwan from 1998 to 2001. She holds a B.S. degree in Agriculture Chemistry from National Taiwan University and an M.B.A. degree from the State University of New York at Buffalo.

Eric Li, Chief IR/PR Officer - Joining Himax in 2012, Mr. Eric Li has an extensive experience in image processing related IC design, having worked in the areas of sales, marketing, R&D and served as Associate Vice President at Himax covering the Intelligent Sensing AI product line. Previously worked in video processing ASIC service and TV/monitor ASSP products before he was put in charge of the fab construction and WLO advanced optics operation. He holds a B.S. degree in Nuclear Engineering from National Tsing Hua University and an M.S. degree in Computer Science from New Jersey Institute of Technology.

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Wafer Level Optics (WLO) / CMOS Image Sensors (CIS)

We offer advanced WLO expertise for Structured Light and ToF in 3D sensing. Our CIS solutions include near infrared (NIR) for 3D sensing, ultralow power Always-on Sensors (AoS) for AI, and customized sensors for optical finger print

Strategies and Market Position

- WLO: exceptional technology development and high quality in mass volume production for anchor customers since 2015
- Anticipate most advanced 3D sensing projects covering structured light for non-smartphone in payment and security applications, and time-of-flight (ToF) for Android smartphone 3D; focus on transmitter module by leveraging our WLO related expertise
- CIS: rich CIS product portfolio for NB and IP Camera
- Industry first ultralow power and low latency back-illuminated CIS solution with near infrared (NIR) sensors for 3D sensing, autonomous modes of operation for always-on computer-vision applications. Reference design win for Google TensorFlow Lite

3D Sensing / Smart Sensing

Himax 3D sensing solution targets in payment, industrial robotics and access control systems. Our smart sensing solution brings computer vision and audio command AI to edge devices with extremely low power consumption

Strategies and Market Position

- 3D Sensing SLiM for non-smartphone, working with industry-leading facial recognition algorithm and application processor partners to develop new 3D sensing application for smart door lock and payment system
- Offer leading 3D decoding ASIC to broaden 3D sensing shares
- Smart Sensing WiseEye solution integrates Himax's ultralow power AI processor, AoS CIS and deep-learning AI algorithm for computer vision and voice command enabled NB, TV, air conditioner, surveillance, door lock, door bell and many other applications
- WiseEye key part strategy is to actively participate in the edge-to-cloud ecosystems led by the world's leading AI and cloud service providers. Himax and Google jointly announced that the developers could leverage the TensorFlow ecosystem to train and deploy TensorFlow models onto Himax's ultralow power processor that runs TensorFlow Lite for Microcontrollers
- 3D/Smart Sensing will be the largest growth opportunity for Himax beyond 2020

Liquid Crystal on Silicon (LCOS) Microdisplays

We are the leader and long-term innovator of LCoS displays and the only company capable of high-volume production runs of LCoS displays for the launch of mass-market devices

Strategies and Market Position

- The leader in microdisplays with patent-protected technology, in-house facilities and shipping record of > 2M units
- Focus on AR goggle devices and HUD for automotive applications
- LCOS is one of the mainstream technology for AR goggle device. Ongoing collaboration with global Tier 1 manufacturers since 2011