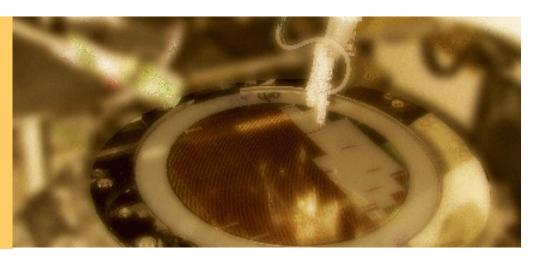
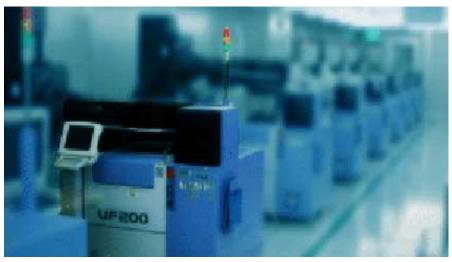


Benchmark of The Testing Industry





King Yuan Electronic Co., Ltd. 京元電子股份有限公司

[TWSE: 2449]

May, 2021

- Wafer Test Service
- Assembly Service
- Burn-In Service
- IC Test Service
- Backend Support
- Turnkey Operation



Safe Harbor Notice

❖ Forward-looking statements involve known and unknown risks, uncertainties and other factors, which may cause the actual performance, financial condition or results of operations of the Company to be materially different from any future performance, financial condition or results of operations implied by such forward - looking statements. Further information regarding these risks, uncertainties and other factors is included in the Company most recent Annual Report on Taiwan Stock Exchange (Market Observation Post System).

KYEC group snapshot

Overview

Manufacturing footprint in Taiwan & China

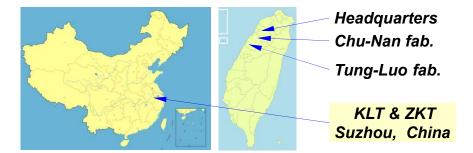
Established In: May 1987

Headquarters: Hsinchu, Taiwan

■ TWSE Listed: 2449.TW

■ Market Cap.⁽¹⁾: NT\$56,124.0 million

■ Employees: 9,200



Key milestones Began wafer sort Complete Chuservice for logic Complete Chu-Complete Nan fab V and memory Nan ḟab III & IV Chu-Nan fab I product Began wafer Complete Complete Tong-Complete Tong-Began burn-in dicing service Complete Chu-Nan fab II Luo fab II Luo fab I services Hsinchu HQ 1990 1993 1996 1998 2000 2010 2012 2014 2016 2018 2020 1987 2002 2004 2006 2008 Establish US Inception of Establish S'pore Establish Japan subsidiary Inception of KLT Suzhou subsidiary subsidiary **KYEC** Listed in Inception of ZKT DLT merger TWSE Market Suzhou

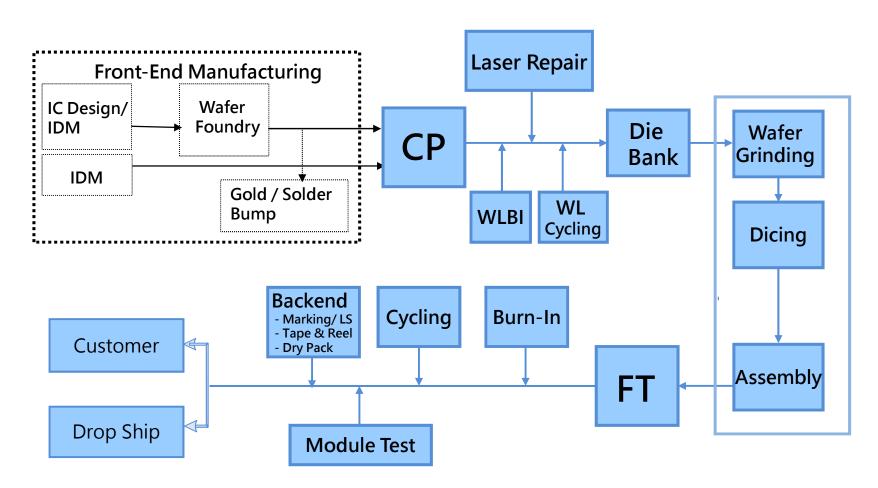
Note: (1) As of May 6, 2021

KYEC is the benchmark of semi testing industry

KYEC is uniquely positioned, locally and globally, as a pure-play testing house and aiming to take advantages of the ever-growing outsourced semi testing business.

- 4,500+ sets of installed test system, including both commercial and in-house developed testers, providing testing services for various end applications
- Optimal customer structure and balanced business exposure to maintain strong margin growth during the volatile semiconductor market environment
- In-house test system developing and manufacturing capability as a core competence differentiate KYEC from its OSAT peers
- 4 Seasoned management team with broad and deep industry experiences
- 5 Healthy financial structure and strong EBITDA profit to support CapEx
- 6 Corporate strategies dedicated to enhance shareholder's interests

IC manufacturing process and KYEC available services



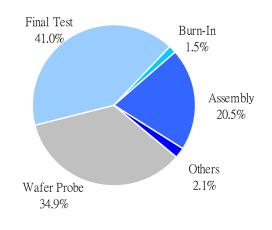
Note: Blue colors are KYEC available services

Diversified product mix for stable, long-term growth

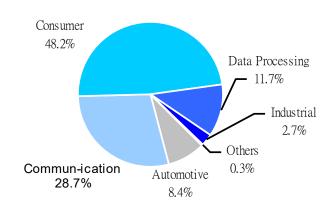
- ☐ In general, test services contributed about 77% of company's total revenue.
- □ Devices tested by KYEC have been widely used in various applications, including consumer, communication, automotive, data computing and industrial ... etc.
- □ Revenue recorded in Others included sale of equipment and tooling, lease income, and miscellaneous items.

Revenue breakdown for Q1'2021

By Manufacturing Process



By Application



KYEC services global top tier customers

□ 58% of global top 50 semi companies use KYEC's test services

(US\$ Millions)

2020	Company	2019	2020	change	2020	Company	2019	2020	change
1	Intel*	67,754	72,759	7.4%	26	Qorvo	2,358	2,776	17.7%
2	Samsung Electronics	52,389	57,729	10.2%	27	Novatek*	2,081	2,723	30.9%
3	SK hynix	22,297	25,854	16.0%	28	Rohm*	2,768	2,677	(3.3%)
4	Micron Technology	20,254	22,037	8.8%	29	Realtek Semiconductor*	1,962	2,644	34.8%
5	Qualcomm*	13,613	17,632	29.5%	30	Toshiba*	2,435	2,461	1.1%
6	Broadcom*	15,322	15,754	2.8%	30	Will Semiconductor*	912	2,461	169.8%
7	Texas Instruments	13,364	13,619	1.9%	32	Maxim Integrated*	2,183	2,354	7.8%
8	MediaTek*	7,958	10,988	38.1%	33	Robert Bosch*	2,430	2,312	(4.9%)
9	NVIDIA*	7,331	10,643	45.2%	34	Nanya Technology	1,667	2,067	24.0%
10	KIOXIA	7,827	10,374	32.5%	35	Nichia	1,794	1,703	(5.1%)
11	STMicroelectronics*	9,451	10,095	6.8%	36	Osram	1,635	1,525	(6.7%)
12	Infineon Technologies	8,248	9,848	19.4%	37	Nexperia	1,466	1,449	(1.2%)
13	Apple	8,474	9,774	15.3%	38	ams*	1,404	1,398	(0.4%)
14	AMD	6,591	9,665	46.6%	39	Mitsubishi Electric	1,352	1,355	0.2%
15	Sony*	8,536	8,597	0.7%	40	Cirrus Logic*	1,242	1,354	9.0%
16	NXP	8,758	8,391	(4.2%)	41	Dialog Semiconductor*	1,409	1,349	(4.3%)
17	HiSilicon Technologies*	7,738	8,164	5.5%	41	Winbond Electronics*	1,237	1,349	9.1%
18	Western Digital	6,252	7,745	23.9%	43	UniSoC Technologies	1,036	1,272	22.8%
19	Renesas Electronics*	6,716	6,604	(1.7%)	44	Macronix International*	1,058	1,251	18.2%
20	Analog Devices*	5,831	5,773	(1.0%)	45	Vishay	1289	1,242	(3.6%)
21	Microchip Technology*	5,161	5,101	(1.2%)	46	DENSO	1,193	1,238	3.8%
22	ON Semiconductor*	5,326	5,020	(5.7%)	47	Sanken	1265	1,228	(2.9%)
23	Skyworks Solutions*	2,822	3,327	17.9%	48	Synaptics*	1,269	1,184	(6.7%)
24	Xilinx*	3,230	3,013	(6.7%)	49	MLS	1211	1,048	(13.5%)
25	Marvell Technology Group*	2,655	2,886	8.7%	50	Murata Manufacturing*	945	1004	6.2%

Source: Gartner 2020

KYEC retains flexible and cost effective test solutions

- □ Current semi testing service provider is demanding on flexibility, cost effective and various platform/capacity for servicing the small-volume business trend.
- ☐ KYEC is standing to take advantage of this market trend for its flexible in test platform choices, capacity and in-house capability.
- **□** KYEC currently installed 4,500+ test systems on its shop floor.

	Memory	Logic / Mixed-Signal	CIS/CCD	LCD Driver	RF / Wireless	soc
Advantest	T5571P / T5581H / T5585 / T5588 T5371 / T5372 / T5377S T5382A / T5771 T5335 / T5365 / T5334 / T5335P	T6672 / T6673 T6575 / T6577 T6683		T6331 T6371 T6372 T6373	T2000-RF	T2000
Agilent (Verigy)	V1200 / V2000 V3000 / V4400	HP93K / HP94K / HP83K	HP93KIP / 94KIP		HP93KPSRF	HP93KPS / PS1600
LTX- Credence	Kalos / XW Kalos II / HEX Pkalos / Pkalos II	Duo / Quartet SCX12 / ITS9KEXA / CV ITS3KEXA / ASL1K / ASL3K-MS Sapphire / D10			ASL3K-RF Fusion-CX Fusion-MX	Sapphire / D10 Fusion-MX DiamondX
Teradyne	M1 / M2	Catalyst / J750 J750EX / iFlex Ultra Flex	IP750 IP750EMP		Flex-RF Catalyst-RF Ultra Flex-RF	J750EX / J750 / J750HD / ETS-364 iFlex / Ultra Flex Catalyst / M1 / M2
Yokogawa				TS6700 ST6730		
KYEC	M-series tester	E-series tester	I-series tester	D-series tester	E-series tester	E-series tester

In-house test systems widely use in mass production

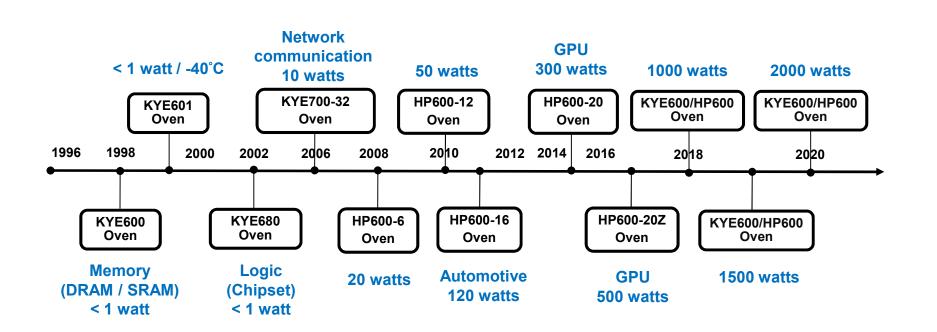
- ☐ In general, in-house test system provide a custom-tailored solution flexible in test configuration and programming for device used in various applications.
- ☐ In addition, KYEC designs and manufactures test tooling and probe card in-house.

Application of in-house tester



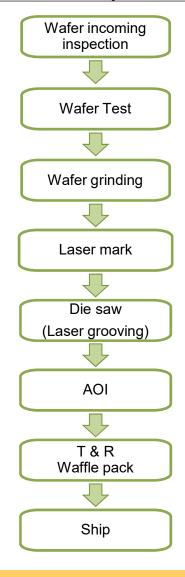
KYEC developed ovens for burn-in test services

- ☐ In-house burn-in ovens provide flexibility, custom tailored test services.
- Our burn-in oven is able to offer testing under wide range of power/watts for products after one single test setup.
- Our high-power burn-in oven employs the air-cooling technologies instead of the water-cooling used in the market available ovens, providing advantages of cost saving and easy maintenance.



KYEC provides turnkey WLCSP services as well

KYEC's WLCSP process flow



- □ In addition to wafer testing, KYEC provides wafer grinding, die sawing/laser grooving, AOI and packing services for Wafer Level Chip Scale Package (WLCSP) as well.
- WLCSP is primarily for applications as: ecompass, accelerometer, gyroscope, pressure, humidity, microphone, power management and memory products.
- WLCSP revenue in KYEC has increased significantly over last couple years. We expects this trend to continue in the future.







KYEC group management team with deep industry experience

C.K. LEE - Chairman & CEO

- Over 30 Years of semiconductor industry experience
- Chairman of KLT (Suzhou) and ZKT (Suzhou)
- Former Manager of Manufacturing, United Microelectronics Corporation
- Bachelor of Department of Shipping &Transportation Management, National Taiwan Ocean University.

Logan CHAO- Vice President & CFO

- Over 20 Years of semiconductor industry experience
- Former Audit manager of KPMG
- Bachelor of Department of Accounting, Chinese Culture University. EMBA of National Tsing Hua University.

Dr. A.H. LIU - General Manager

- Over 20 Years of semiconductor industry experience
- Former Vice President of EverLight Electronics
- Former General Manager of Internatix Company.
- Ph.D. from Graduate School of Mechanical Engineering, North Carolina State University, USA.

Gauss CHANG - Executive VP

- Over 30 Years of semiconductor industry experience
- Former Manager of foundry business, Winbond Electronics Corp.
- MBA. from Saginaw Valley State University, Michigan, USA.

Hans HAN- Vice President

- Over 30 Years of semiconductor industry experience
- Former deputy assistant vice president of Walton Advanced Engineering Inc.
- Bachelor of Department of Electrical Engineering, National Taiwan University of Science and Technology. M.Sc. from Department of Electronic and Computer Engineering, National Taiwan University of Science and Technology.

Andy LIANG - Vice President

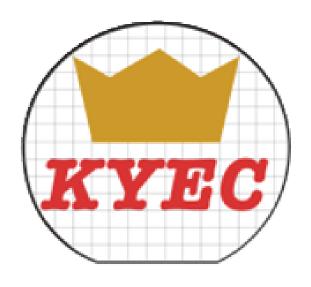
- Over 20 Years of semiconductor industry experience
- Former manager of equipment engineering, UTAC/Taiwan
- Bachelor of Department of Electronic Engineering, Minghsin University of Science and Technology. MBA from Minghsin University of Science and Technology.

K.K. LEE - Senior VP

- Over 30 Years of semiconductor industry experience
- Former vice director of material procurement and management, United Microelectronics
 Corporation
- Bachelor of Department of Industrial Engineering and Enterprise Information, Tunghai University.

Steven CHANG - Senior VP

- Over 20 Years of semiconductor industry experience
- Former Manager of quality assurance, Macronix International Co., LTD.
- Bachelor of Department of Electrical Engineering, Chung Yuan Christian University. M.Sc. from Graduate School of Electrical Engineering, National Central University.



Financial highlights

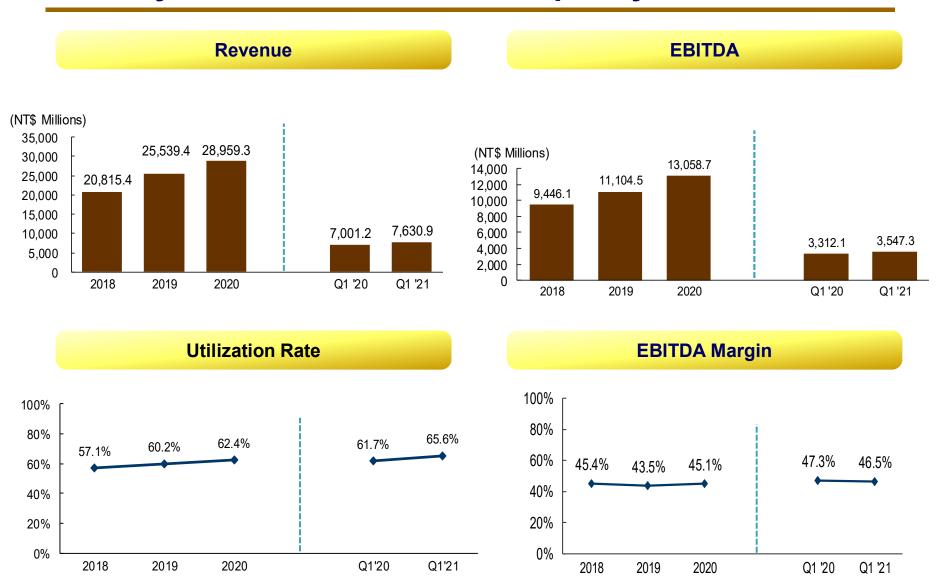
Financial Snapshot

(NT\$ Millions)	Q4'20	Q1'21
Net Revenue	\$6,937.1	\$7,630.9
Gross Margin (%)	22.8%	29.1%
Expenses		
SG&A	\$534.3	\$572.0
R&D	\$340.2	\$278.0
EBITDA	\$2,820.7	\$3,547.3
EPS – diluted (NT\$)	\$0.56	\$0.93
EPS – basic (NT\$)	\$0.57	\$0.94

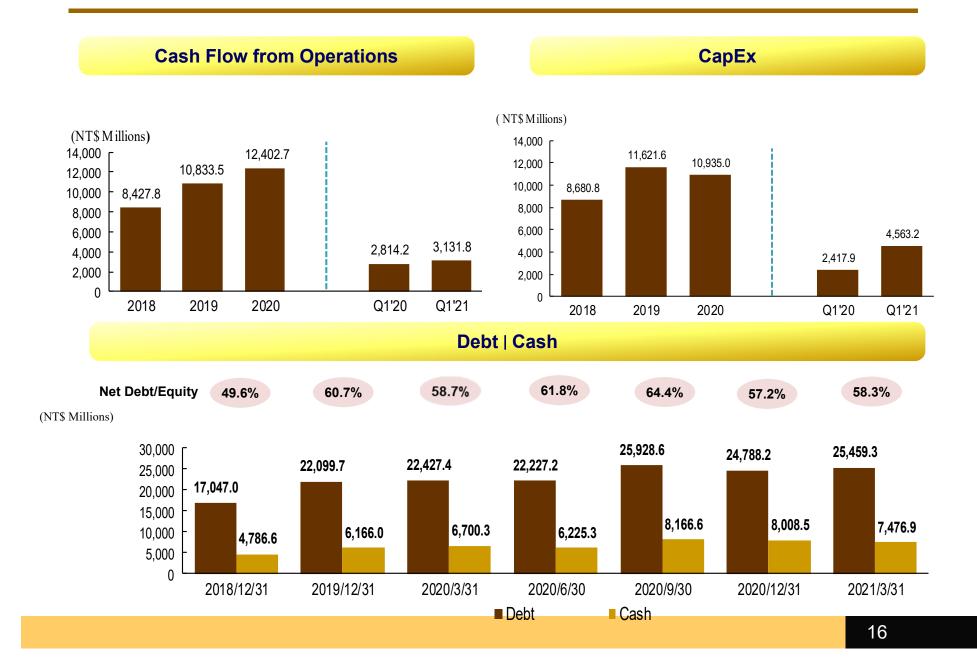


(NT\$ Millions)

Healthy business trends and capacity investment



Optimal financial leverage enhances shareholder interest



Company website

http://www.kyec.com.tw