IR Presentation Q2 2020

Q2 2020 Results & Q3 2020 Guidance

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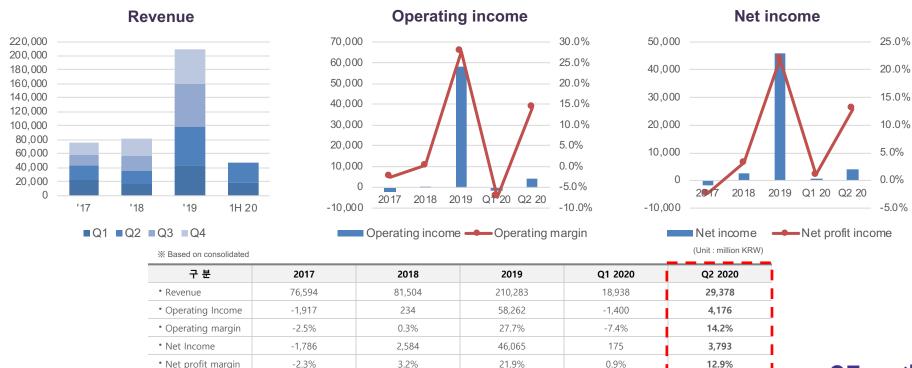


Q2 2020 Result Review



Financial Results

Q2 Revenue 29.4B KRW Operating income 4.2B KRW (14.2%) Net income 3.8B KRW(12.9%)



Financial Results

Q2 2020 Revenue 29.4B KRW, Operating income 4.2B KRW(14.2%)

Overseas FTTH/MSO sales increase

(Unit: million KRW)

	Q1 20	Q2 20	%	QoQ	Q2 19	YoY
Revenue (Sales)	18,938	29,378		55.1%	56,036	-47.6%
Gross profit	6,503	12,638	43.0%	94.3%	23,666	-46.6%
Selling general Administrative expenses	7,903	8,462	28.8%	7.1%	7,137	-18.6%
Operating Income(loss)	-1,400	4,176	14.2%	(398.3%)	16,530	(-74.7%)
Profit (loss) Before tax	-154	4,107	14.0%	(2,771.6%)	16,604	(-75.3%)
Net income	175	3,793	12.9%	(2,067.6%)	11,279	(-66.4%)

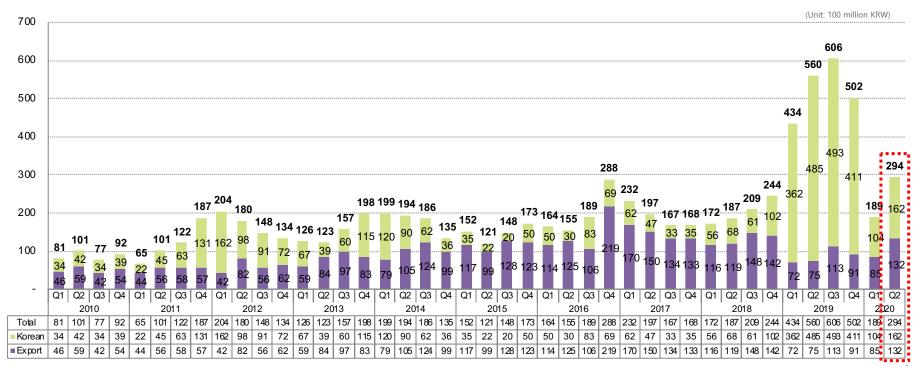
* Based on consolidated



Quarterly Revenue trends

5G Investment stagnation and delay due to issues such as COVID-19

Expected to grow in 2021 and improve Q4 results

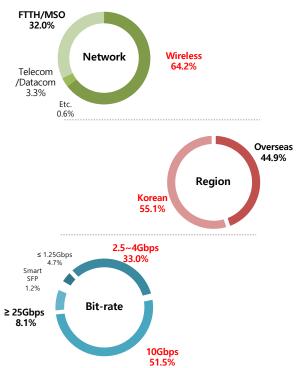


* Based on separate standard

Sales details

FTTH/MSO QoQ 268% ↑

Wireless 64.2%, Korean 55.1%, Overseas 44.9%



	Q1 2020	Q2 2020	QoQ (%)
Network			
• Wireless	145.8	188.6	29.4%
Telecom/Datacom	18.1	9.6	-47.0%
• FTTH/MSO	25.5	93.9	268.2%
• etc.		1.7	N/A
Region			
Korean	104.5	161.8	54.8%
• Overseas	84.8	132.0	55.6%
Overseas ratio	44.8%	44.9%	
Bti-rate			
• ≤1.25Gbps	22.8	13.8	-39.5%
• 2.5~4Gbps	37	97.1	162.4%
• 5~6Gbps	1.4	2.3	64.3%
• 10Gbps	94.8	151.3	59.6%
• ≥25Gbps	26.7	23.9	-10.5%
• Smart SFP	6.7	3.5	-47.8%
Component / Chip		1.7	N/A
• etc.	0.0	0.2	2400.0%
Total	189.4	293.8	55.1%

X Based on separate standard



(Unit: 100 million KRW)

5G(NR) Mobile Network Business

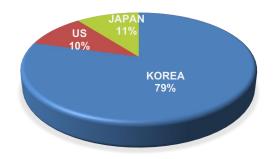


5G(NR) Mobile Network Business

5G Network Supply chain



5G 1H 2020 Revenue



(Unit: million KRW)

Region	Operator	Product	Revenue	%	
	KT	10Gbps, 25Gbps			
KOREA	LG U+	10Gbps	18,056	79%	
	SKT	10Gbps			
LADAN	KDDI	10Gbps	2.206	100/	
JAPAN	NTT docomo	25Gbps	2,386	10%	
US	Verizon	10Gbps	2 200	100/	
	AT&T 25Gbps		2,308	10%	
	Total	22,750			

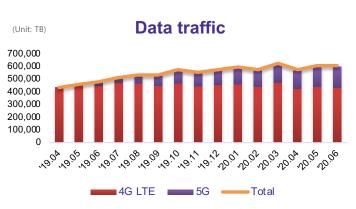


5G(NR) Mobile Network Business

COVID-19 Pandemic

Expected to increase data traffic due to spread of non face-to-face culture (Education, Business, Consumption etc.)

Data traffic in Korea



COVID-19
CORONAVIRUS DISEASE 2019

BERNATION

(Unit: TB)

(Source: Ministry of science and ICT)

	'19.04	'19.05	'19.06	'19.07	'19.08	'19.09	'19.10	'19.11	'19.12	'20.01	'20.02	'20.03	'20.04	'20.05	'20.06
4G LTE	429,597	448,336	448,336	472,327	468,436	449,410	468,127	445,950	458,575	463,118	440,395	473,543	427,662	441,233	433,645
5G	5,938	13,987	30,574	44,951	67,238	87,928	105,073	109,244	121,444	131,241	132,057	152,729	144,192	162,200	169,898
Total	435,535	462,323	478,910	517,278	535,674	537,338	573,200	555,194	580,019	594,359	572,452	626,272	571,854	603,433	603,543
Growth rate	2.0%	6.2%	3.6%	8.0%	3.6%	0.3%	6.7%	-3.1%	4.5%	2.5%	-3.7%	9.4%	-8.7%	5.5%	0.02%

OE Solutions Vision & Strategy



Unique Products-Smart Transceivers

World's First Leading Technology Smart Transceiver

Smart Transceiver



Simplify Network Migration Example of using Smart SFP SONET Access OC-M/ Packet STM-N Switched OC-M/ STM-N network OC-N / STM-N

Product Features



15,000

10.000

Smart Transceiver

The Network system features in the transceiver enable network migration at low cost and high efficiency. OE Solutions/AimValley

World's First Leading Technology

Global Tier 1 customer design in good progress

→Ciena, CISCO, Nokia, Juniper, ADVA etc.

Smart Transceiver Revenue 12.307 5,355 3,544





(Unit: million KRX)

Vision & Strategy

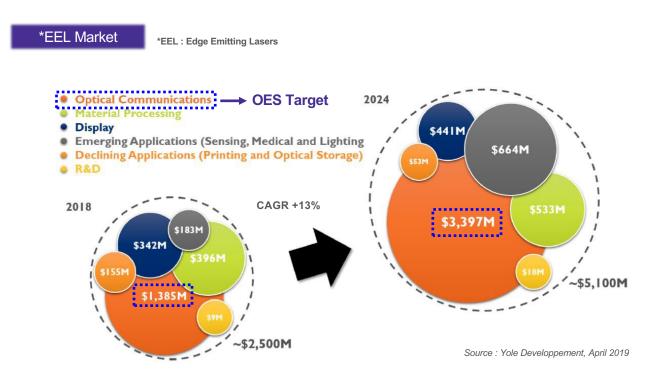




25G EML: Joint with ETRI

Vision & Strategy

Target the Optical Communication market through Edge Emitting Lasers technology EEL technology has potential to expand into many businesses



Q3 of 20 Guidance



Q3 of 20 Guidance

Q3 Revenue is expected to 29B KRW

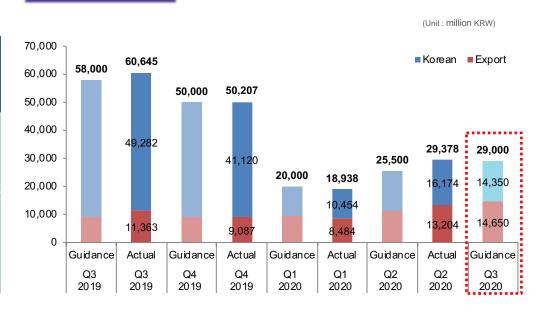
5G investment reduction and delay due to COVID-19 global issued

Quarterly Guidance

(Unit : million KRW)

Q4 Q3 2020 Actual Actual Guidance Revenue 60.645 50.207 18.938 29.378 29.000 (Sales) Korean 49.282 41.120 10.454 16.174 14.350 11,363 13,204 **Export** 9,087 8,484 14,650

Quarterly Trends





X Consolidated and forecast as of August 2020

Appendix

- Company Introduction
- Financials



About OE Solutions

Overview

Name	OE Solutions, Co., Ltd	Date of Established	Aug.7, 2003			
Number of Employees	410 (Korea: 390 / USA: 18 / Japan: 2)	Date of Listing	Feb.27, 2014(KOSDAQ code : 138080)			
Product	Optical Transceiver	Homepage	www.oesolutions.com			
Locations	Head Quarter : Gwangju, South Korea / US : Ridgefield Park, NJ, USA / JAPAN : Tokyo Japan					

(As of July.31,2020)

Locations

AimValley SOLUTIONS and the second Ridgefield Park, NJ, USA Tokyo, Japan

Hilversum, Netherlands

- Europe Headquarter
- Europe Sales
- Smart and system R&D

Gwangju, Korea

- Global Headquarter
 Japan Sales
- Manufacturing

Seoul (Anyang), Korea

- Korea Sales
- Asia Sales
- R&D

R&D

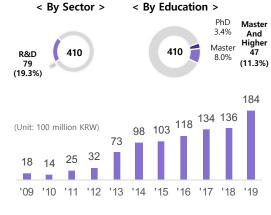
Taipei, Taiwan

- China Sales
- Engineering Support

US Headquarter ■ Engineering Support ■ US (East Coast) Sales

- Engineering Support
- Irvine, CA, USA
- Engineering Support
- R&D
- Santa Babara, CA, USA
- Engineering Support
- R&D

R&D Engineer & Cost



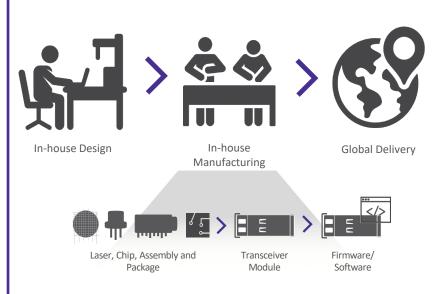


OE Solutions – A Global Supplier of Transceivers

Leading Supplier of High-Reliability Optical Components for Challenging Deployment Environments



- Leading supplier of optical components since 2003
- Founded by a team of Bell Labs and Samsung veterans
- Traded on KOSDAQ since 2014
- Key supplier to tier-1 MSO and Wireless OEMs
- Serving global customer in over 50 countries
- Leading supplier of BIDI and I-Temp Optics
- Leading supplier of Smart SFPs (co-developed with AimValley)
- Vertically integrated production
- In-house production in Gwangju, S. Korea factory
- R&D sites in Korea, USA and the Netherlands





Vertical Integration

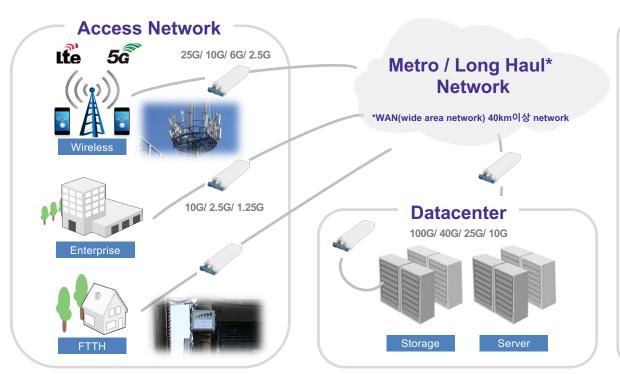
	Manufactur	ring Process	Manufacturing Technology			
Chip		Laser Diode Photo Diode	Epitaxy / Fabrication / Wafer Characterization			
Assembly		TO/ XMD (Cooled/ Uncooled)	Die Bonding, Wire Bonding, Seam Sealing, Burn-in, DC/AC Test			
Package		OSA (TOSA/ ROSA/ BOSA)	Laser welding, Epoxy bonding, DC/AC Test			
Circuit / Module		Transceiver (Tuning & Test)	Auto Soldering / Auto Tuning / Test			
Firmware / Software	TRAME	Sub-system (Network Migration & Self-Monitoring Technology)	Co-developed with AimValley, a networking technology expert in Netherlands			
Production		Own manufacturing, assembly & testing facility	Low cost, flexible production			



Transceiver Products Applications

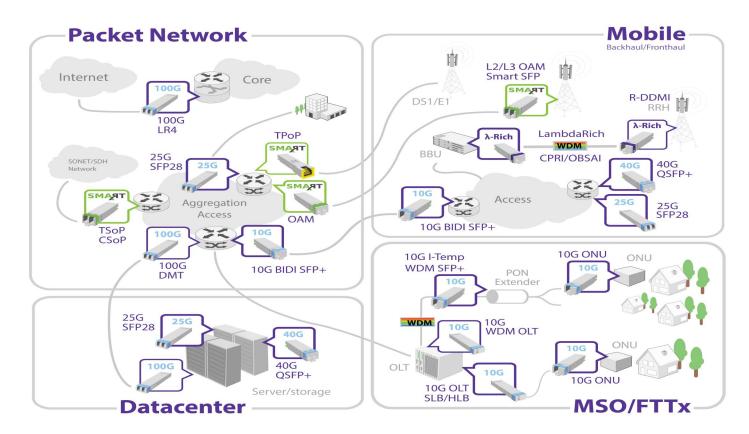
The use of Transceiver in the Network

Transceiver required for network connections





Key Application Areas





Condensed income statement

Consolidated

(Unit: million KRW)

	2017	2010	2010	2020		
	2017	2018	2019	1Q	2Q	
Revenue (Sales)	76,594	81,504	210,283	18,938	29,378	
Cost of sales	53,973	54,106	122,835	12,435	16,740	
Gross margin	22,620	27,398	87,448	6,503	12,638	
Operating expenses	24,538	27,164	29,186	7,903	8,462	
Operating income(loss)	(1,917)	234	58,262	-1,400	4,176	
Profit (loss) before tax	(3,788)	1,951	58,388	-154	4,107	
Net income	(1,786)	2,584	46,065	175	3,793	

Separate standards

				(Unit :	million KRW)
	2017	2010	2010	20	20
	2017	2018	2019	1Q	2Q
Revenue (Sales)	76,535	81,406	210,242	18,938	29,377
Cost of sales	53,914	54,117	122,835	12,435	16,740
Gross margin	22,621	27,289	87,407	6,503	12,637
Operating expenses	25,174	26,925	28,533	7,813	8,867
Operating income(loss)	(2,553)	364	58,874	-1,310	3,770
Profit (loss) before tax	(4,514)	1,945	59,436	-70	3,759
Net income	(2,338)	2,641	47,026	260	3,410

* K-IFRS



Condensed statement of financial position

Consolidated

(Unit : million KRW)

				(Unit : million KRW)			
	2017	2018	2019	2020			
	2017	2010	2019	1Q	2Q		
Current assets	57,247	57,027	137,422	128,091	129,369		
Cash and cash equivalents	21,923	11,073	44,259	34,547	35,813		
Accounts receivable	14,626	18,969	33,138	17,459	27,854		
Inventory asset	18,840	19,740	24,222	27,946	25,353		
Non-current assets	38,809	42,125	46,945	53,174	58,043		
Tangible assets	29,597	30,476	30,161	31,269	34,314		
Intangible assets	766	782	738	800	809		
Total assets	96,056	99,152	184,367	181,265	187,412		
Current liabilities	24,807	25,369	42,847	43,574	45,910		
Short-term debt	20,000	19,400	27,000	27,000	37,000		
Non-current liabilities	4,302	5,736	2,211	2,277	2,336		
Total liabilities	29,110	31,105	45,059	45,850	48,246		
Capital	3,870	3,870	5,312	5,312	5,312		
Premium on capital stock	26,969	26,969	52,031	52,002	52,002		
Retained earnings	33,937	34,868	79,731	75,660	79,453		
Total equity	66,946	68,047	139,308	135,414	139,166		

Separate standards

(Unit: million KRW)

	2017 2010		2010	2020		
	2017	2018	2019	1Q	2Q	
Current assets	55,648	55,790	136,299	127,306	127,649	
Cash and cash equivalents	20,662	10,227	42,423	32,555	32,592	
Accounts receivable	14,251	18,299	33,096	17,061	28,948	
Inventory asset	18,840	19,740	24,222	27,946	25,352	
Non-current assets	38,923	41,993	46,416	52,468	57,469	
Tangible assets	29,306	30,119	29,192	30,273	33,338	
Intangible assets	105	54	36	32	27	
Total assets	94,571	97,783	182,715	179,774	185,118	
Current liabilities	25,309	26,119	43,065	44,127	46,012	
Short-term debt	20,000	19,400	27,000	27,000	37,000	
Non-current liabilities	4,228	5,643	1,676	1,688	1,737	
Total liabilities	29,538	31,761	44,740	45,815	47,74 9	
Capital	3,870	3,870	5,312	5,312	5,312	
Premium on capital stock	26,969	26,969	52,031	52,002	52,002	
Retained earnings	31,650	32,638	78,461	74,475	77,885	
Total equity	65,034	66,022	137,975	133,959	137,369	



Thank you.



Contact Us

OE Solutions Korea Headquarters

53, Cheomdanyeonsin-ro 30beon-gil, Buk-Gu, Gwangju, 61080, Korea

Tel: +82 (62) 960-5252 Fax: +82 (62) 960-5258 Email: sales@oesolutions.com

OE Solutions America U.S. Headquarters

65 Challenger Road STE 240 Ridgefield Park, NJ 07660, USA

Tel: +1 (201) 568-1188 Fax: +1 (201) 568-1177 Email: sales@oesolutions.com

Website

www.oesolutions.com

OE Solutions Seoul (Anyang) Office

Unit B-#1619, Geumgang Penterium IT Tower, 282, Hagui-ro, Dongan-gu, Anyang-si, Gyeonggi-do, 14056, Korea

Tel: +82 (31) 450-2800 Fax: +82 (31) 450-2815 Email: sales@oesolutions.com

OE Solutions Japan Japan Headquarters

3F Nagai Building, 1-24-2, Shinjuku, Shinjuku-ku, Tokyo, 160-0022, Japan

Tel: +81 (3) 6274-8543 Fax: +81 (3) 6274-8549

Email: sales@oesolutions.com

