IR Presentation Q1 2021

Q1 2021 Results & Q2 2021 Guidance

June 2021 OE Solutions IR

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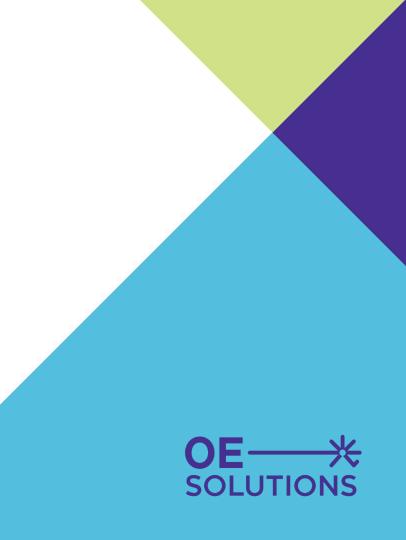
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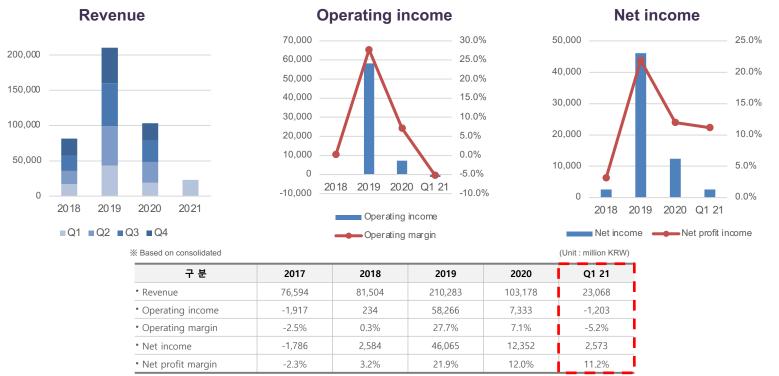
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Q1 2021 Result Review



Q1 2021 Revenue 23.1B KRW , Operating income -1.2B KRW(-5%), Net income 2.6B KRW(11%)



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Q1 2021 Revenue 23.1B KRW

YoY 21.8%, QoQ -6.6%

						(Unit : MIIIION KRW)
	Q1 20	Q1 21	%	YoY	Q4 20	QoQ
Revenue (Sales)	18,938	23,068		21.8%	24,706	-6.6%
Gross profit	6,503	8,345	36.2%	28.3%	8,000	4.3%
Selling general Administrative expenses	7,903	9,548	41.4%	20.8%	8,480	12.6%
Operating Income(loss)	-1,400	-1,203	-5.2%	14.1%	-480	-150.6%
Profit (loss) Before tax	-154	-443	-3.0%	-188.4%	-2,339	81.0%
Net income	175	2,573	11.2%	1,370.6%	3,870	-33.5%

※ Based on consolidated

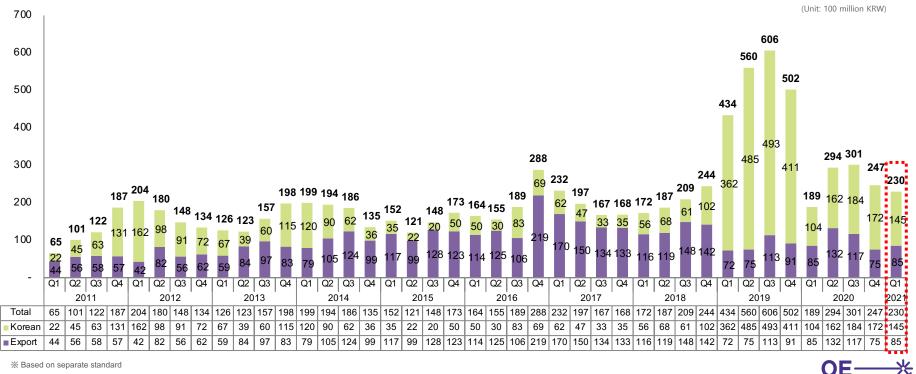
(Unit · million KRW)





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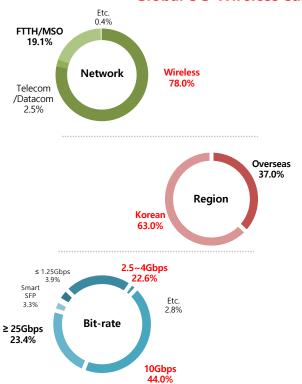
Global 5G investment Expected in 2021



* Based on separate standard

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Global 5G Wireless sales have a positive effect on Q1 2021 Revenue

(Unit: 100 million KRW)

구 분	4Q 2020	1Q 2021	QoQ (%)
Network			
• Wireless	187.5	179.6	-4.2%
 Telecom/Datacom 	7.8	5.7	-26.9%
• FTTH/MSO	48.9	44.1	-9.8%
• etc.	2.8	1	-64.3%
Region			
• Korean	172.1	145.2	-15.6%
Overseas	74.9	85.2	13.8%
Overseas ratio	30.3%	37.0%	
Bit-rate			
• ≤1.25Gbps	8.7	9	3.4%
• 2.5~4Gbps	58.6	52.1	-11.1%
• 5~6Gbps	2.7	5.4	100.0%
• 10Gbps	125.4	101.4	-19.1%
• ≥25Gbps	43.2	53.8	24.5%
• Smart SFP	5.6	7.7	37.5%
• Component / Chip	2.8	1.0	-62.9%
• etc.			0.0%
Total	247.0	230.4	-6.6%

※ Based on separate standard



5G(NR) Mobile Network Business



5G(NR) Mobile Network Business



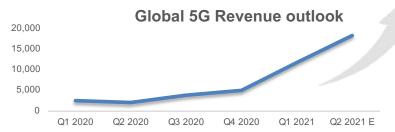
Global 5G Revenue Forecast

Global(US, Japan, etc.) 5G sales growth is expected to increase further in the second half of the year

(Unit: 100 million KRW)

US

59%



Q1 2021 5G Revenue

KOREA

15%

JAPAN

26%

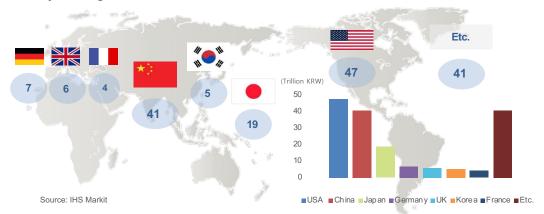
(Unit: 100 million KRW) Region Operator Revenue % US Verizon 8.274 59% KDDI JAPAN 3.557 26% NTT docomo ΚT KOREA 15% LG U+ 2.094 SKT Total 13,925 OE— <u> </u>



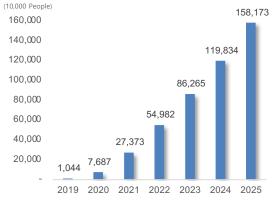
5G Market Forecast



5G Infra equipment investment outlook - 5-year average



Global 5G subscribers outlook



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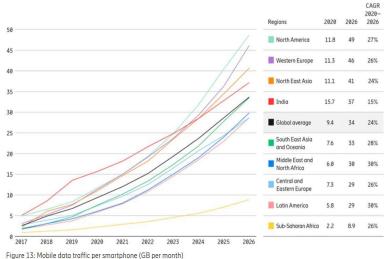
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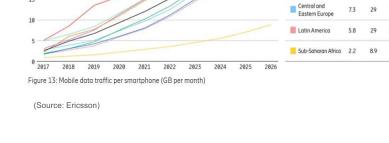
Source: IHS Markit

5G(NR) Mobile Network Business

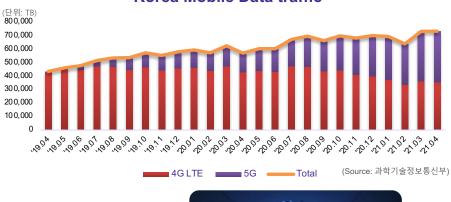
Data traffic

Global Mobile data traffic outlook





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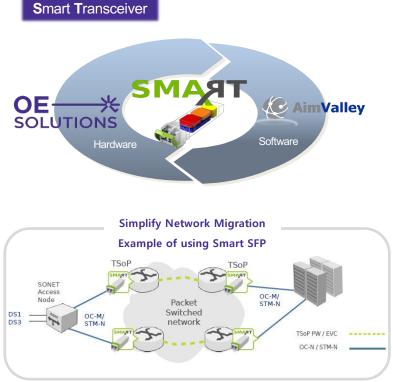


Korea Mobile Data traffic

OE Solutions Vision & Strategy



World's First Leading Technology Smart Transceiver



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Smart Transceiver

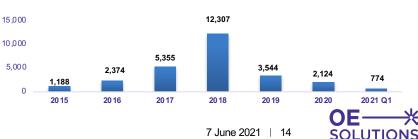
The Network system features in the transceiver enable network migration at low cost and high efficiency. **OE Solutions/AimValley**

World's First Leading Technology

Global Tier 1 customer design in good progress

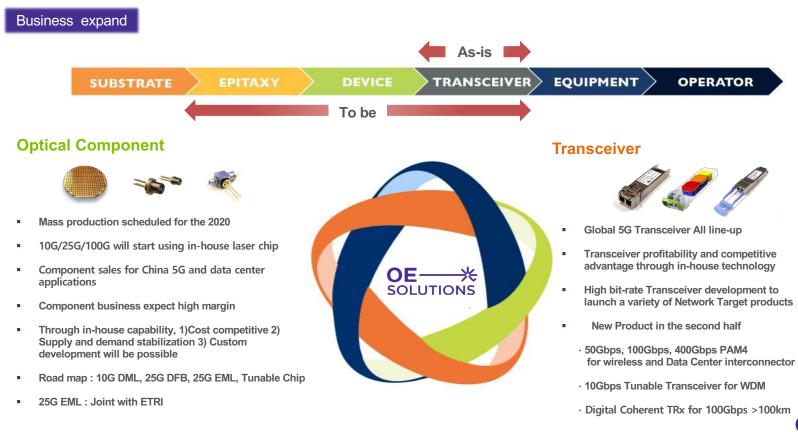
→Ciena, CISCO, Nokia, Juniper, ADVA etc.

(Unit: million KRX)



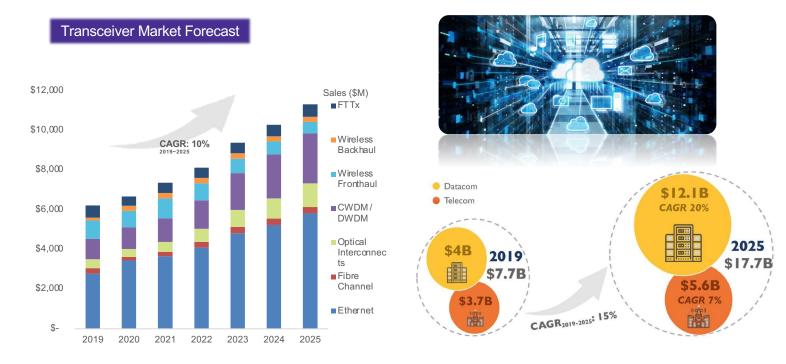


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Demand for Transceivers continues to increase due to infrastructure investments that require data connectivity



Source : LightCounting, 2020 October Report

Source : Yole Developpement, 2020

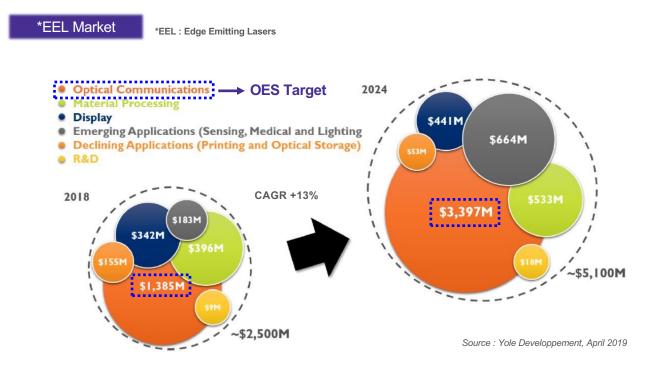


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Vision & Strategy for OES's Semiconductor Laser Diode Chip

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





Q2 of 21 Guidance





Q2 Revenue is expected to 31.5B KRW

YoY 36.7% ↑, QoQ 7.2% ↑

Quarterly G	uidance					Qua	terly T	rends				
				(Unit : I	million KRW)							
	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	40,000	∎ h	Korean Export				
	Actual	Actual	Actual	Actual	Guidance	30,00	25,500	29,378	29,000	30,157	29,255	
Revenue (Sales)	29,378	30,157	24,706	23,039	31,500	20,000		16,174		18,442		
Domestic	16,174	18,442	17,207	14,517	23,027	10,000		13,204		11,715		
Export	13,204	11,715	7,499	8,522	8,473	(Guid ance Q2 2020	Actual Q2 2020	Guid ance Q3 2020	Actual Q3 2020	Guid ance Q4 20 20	T

(Unit : million KRW)

31,500

25,000 24,706 23,039 23,027 2 17,207 14.51. 8,473 .522 4 .499 Actual Guid ance Actual Guid ance ice Q4 Q1 Q1 Q2 2020 2021 2021 2021

X Consolidated and forecast as of May 2021



Appendix

- Company Introduction
- Financials



OE-

SOLUTIONS

Overview

Name	OE Solutions, Co., Ltd	Date of Established	Aug.7, 2003	
Number of Employees	503 (Korea: 480 / USA: 19 / Japan: 3)	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 May.31,2021)



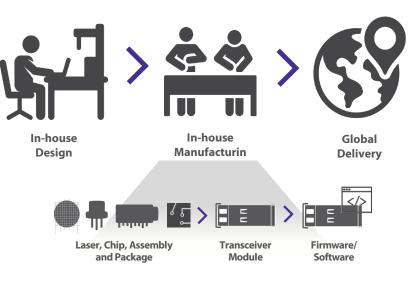
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OE Solutions – A Global Supplier of Transceivers

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





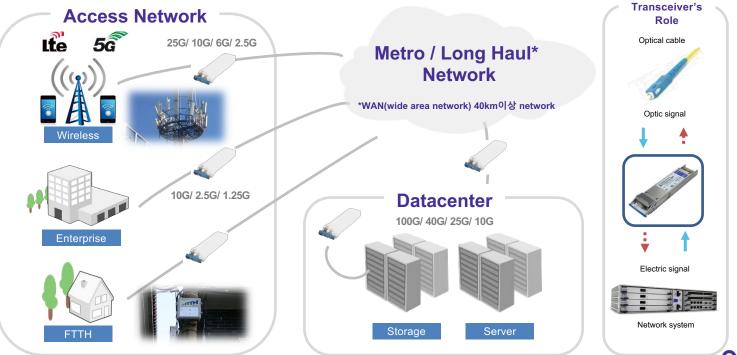


	Manufactur	ring Process	Manufacturing Technology		
Chip		Laser Diode Photo Diode	Epitaxy / Fabrication / Wafer Characterization		
Assembly		TO/ XMD (Cooled/ Uncooled)	Die Bonding, Wire Bonding, Seam Sealing, Burn-in, DC/AC Test		
Package	-	OSA (TOSA/ ROSA/ BOSA)	Laser welding, Epoxy bonding, DC/AC Test		
Circuit / Module	e	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	And the second s	
Production		Own manufacturing, assembly & testing facility	Low cost, flexible production		





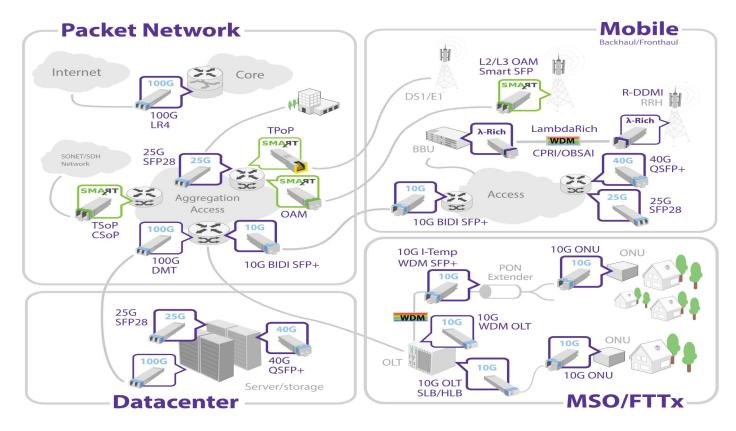
The use of Transceiver in the Network



Transceiver required for network connections

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Consolidated

				(Unit : million KRW)
	2018	2019	2020	2021 1Q
Revenue (Sales)	81,504	210,283	103,178	23,068
Cost of sales	54,106	122,835	62,686	14,722
Gross profit	27,398	87,448	40,492	8,345
Selling general administrative expenses	27,164	29,186	33,159	9,548
Operating income(loss)	234	58,262	7,333	-1,203
Profit (loss) before tax	1,951	58,388	6,699	-443
Net income	2,584	46,065	12,352	2,573

Separate standards

(Unit : million KRW)

	2018	2019	2020	2021 1Q
Revenue (Sales)	81,406	210,242	103,172	23,039
Cost of sales	54,117	122,835	62,686	14,722
Gross profit	27,289	87,407	40,486	8,317
Selling general administrative expenses	26,925	28,533	33,180	9,714
Operating income(loss)	364	58,874	7,305	-1,397
Profit (loss) before tax	1,945	59,436	6,990	-625
Net income	2,641	47,026	12,227	2,390

Consolidated

	(Unit : million				
	2018	2019	2020	2021 1Q	
Current assets	57,027	137,422	129,808	129,878	
Cash and cash equivalents	11,073	44,259	40,068	35,829	
Accounts receivable	18,969	33,138	14,847	14,454	
Inventory asset	19,740	24,222	22,484	27,813	
Non-current assets	42,125	46,945	65,377	68,992	
Property, plant and equipment	30,476	30,161	39,269	39,938	
Intangible assets	782	738	746	754	
Total assets	99,152	184,367	195,184	198,870	
Current liabilities	25,369	42,847	45,749	49,841	
Short-term debt	19,400	27,000	36,000	36,000	
Non-current liabilities	5,736	2,211	2,455	2,602	
Total liabilities	31,105	45,059	48,204	52,443	
Capital	3,870	5,312	5,312	5,312	
Paid-in capital in excess of par value	26,969	52,031	52,002	52,002	
Retained earnings	34,868	79,731	87,511	86,900	
Total equity	68,047	139,308	146,981	146,427	

Separate standards

(Unit : million KRW)

	(Unit : MIIION K				
	2018	2019	2020	2021 1Q	
Current assets	55,790	136,299	127,504	127,904	
Cash and cash equivalents	10,227	42,423	34,557	32,788	
Accounts receivable	18,299	33,096	18,137	14,804	
Inventory asset	19,740	24,222	22,484	27,811	
Non-current assets	41,993	46,416	65,055	68,730	
Property, plant and equipment	30,119	29,192	38,592	39,314	
Intangible assets	54	36	18	14	
Total assets	97,783	182,715	192,559	196,634	
Current liabilities	26,119	43,065	44,794	49,529	
Short-term debt	19,400	27,000	36,000	36,000	
Non-current liabilities	5,643	1,676	2,164	2,300	
Total liabilities	31,761	44,740	46,959	51,828	
Capital	3,870	5,312	5,312	5,312	
Paid-in capital in excess of par value	26,969	52,031	52,002	52,002	
Retained earnings	32,638	78,461	86,116	85,322	
Total equity	66,022	137,975	145,600	144,806	



Thank you.



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