IR Presentation Q3 2020

Q3 2020 Results & Q4 2020 Guidance

November 2020 OE Solutions IR

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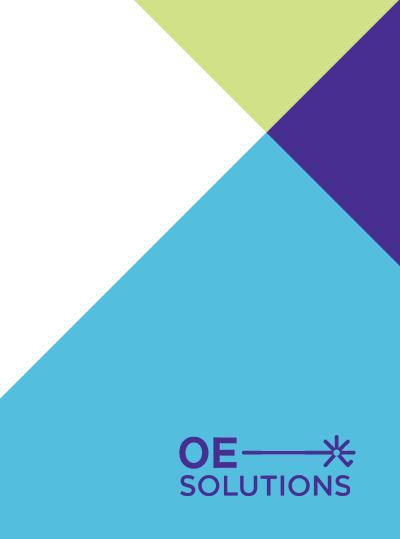
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Q3 2020 Result Review



Q3 Revenue 30.2B KRW Operating income 5.0B KRW (16.7%) Net income 4.5B KRW(15.0%)



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Q3 2020 Revenue <u>30.2B KRW</u>, Operating income <u>5.0B KRW(16.7%)</u> Overseas FTTH/MSO sales increase

	Q2 20	Q3 20	%	QoQ	Q319	ΥοΥ
Revenue (Sales)	29,378	30,157		2.7%	60,645	-50.3%
Gross profit	12,638	13,351	44.3%	5.6%	27,075	-50.7%
Selling general Administrative expenses	8,462	8,314	27.6%	-1.7%	7,149	16.3%
Operating Income(loss)	4,176	5,037	16.7%	(20.6%)	19,926	(-74.7%)
Profit (loss) Before tax	4,107	5,085	16.9%	(23.8%)	20,316	(-75.0%)
Net income	3,793	4,514	15.0%	(19.0%)	15,624	(-71.1%)

(Unit : million KRW)

※ Based on consolidated

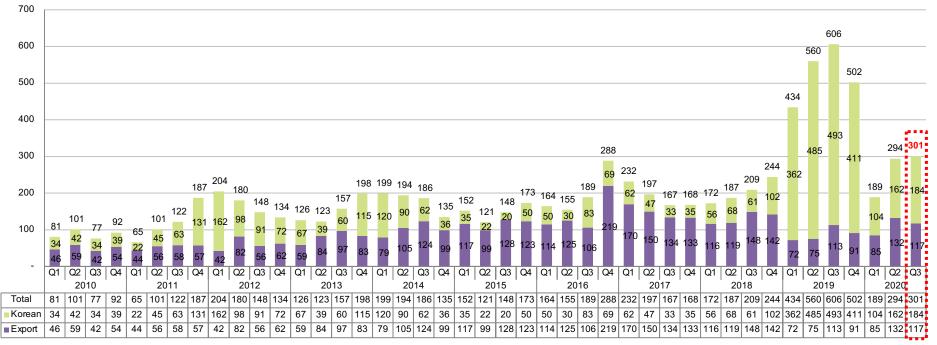




5G Investment stagnation and delay due to issues such as COVID-19

Overseas 5G investment Expected in 2021

(Unit: 100 million KRW)



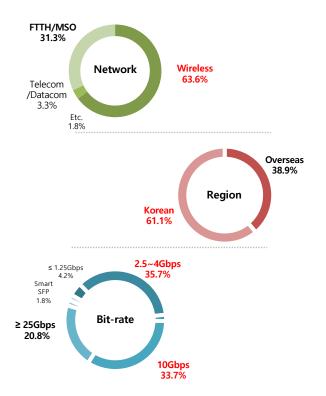
※ Based on separate standard



Sales details



Overseas FTTH/MSO sales have a positive effect on Q3 Revune Wireless 63.7%, Korean 61.1%, Overseas 38.9%



구 분	Q2 2020	Q3 2020	QoQ (%)
Network			
• Wireless	188.6	191.8	1.7%
 Telecom/Datacom 	9.6	10.1	5.2%
• FTTH/MSO	93.9	94.3	0.4%
• etc.	1.7	5.3	211.8%
Region			
• Korean	161.8	184.2	13.8%
Overseas	132.0	117.3	-11.1%
Overseas ratio	44.9%	38.9	
Bit-rate			
• ≤1.25Gbps	13.8	12.8	-7.2%
• 2.5~4Gbps	97.1	107.6	10.8%
• 5~6Gbps	2.3	6.1	165.2%
• 10Gbps	151.3	101.7	-32.8%
• ≥25Gbps	23.9	62.6	161.9%
• Smart SFP	3.5	5.4	54.3%
• Component / Chip	1.7	5.3	211.8%
• etc.	0.2		N/A
Total	293.8	301.5	2.6%

※ Based on separate standard

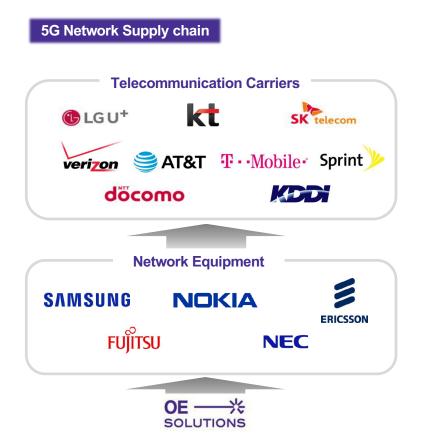
(Unit: 100 million KRW)



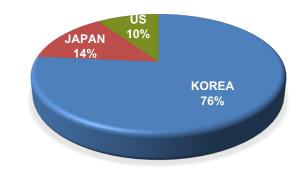
5G(NR) Mobile Network Business



5G(NR) Mobile Network Business



5G Products Revenue



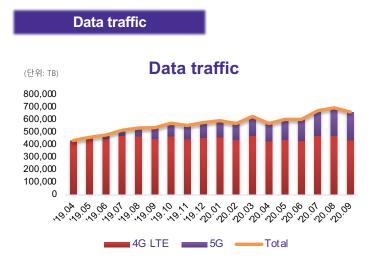
(Unit : 백만원)

Region	Operator	Product	Revenue	%	
	KT	10Gbps, 25Gbps			
KOREA	LG U+	10Gbps, 25Gbps	27,965	76%	
	SKT	10Gbps			
	KDDI	10Gbps	5.112	14%	
JAPAN	NTT docomo	25Gbps	5,112		
US	Verizon	10Gbps	2 401	10%	
05	AT&T	25Gbps	3,491	10%	
	Total		36,569		

COVID-19 Pandemic

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

COVID-19





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	•	10)

구 분	'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	'20.07	'20.08	'20.09
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	472,636	471,662	436,093
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	201,227	225,055	226,786
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	673,863	696,717	662,879
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%	11.7%	3.4%	-4.9%

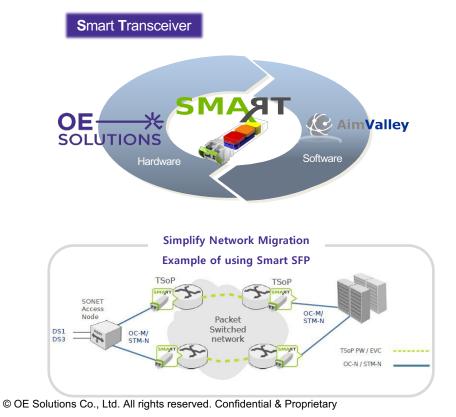


글로벌 광통신 기언

OE Solutions Vision & Strategy



World's First Leading Technology Smart Transceiver



Product Features Smart SFP value proposition Cost reduction Low Carbon Footprint **Operational Simplicity** Easy upgrade Space Saving Simple Installation

Smart Transceiver

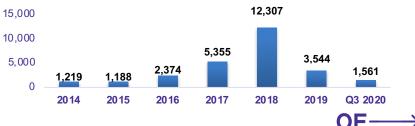
The Network system features in the transceiver enable network migration at low cost and high efficiency. OE Solutions/AimValley

World's First Leading Technology

Global Tier 1 customer design in good progress

 \rightarrow Ciena, CISCO, Nokia, Juniper, ADVA etc.

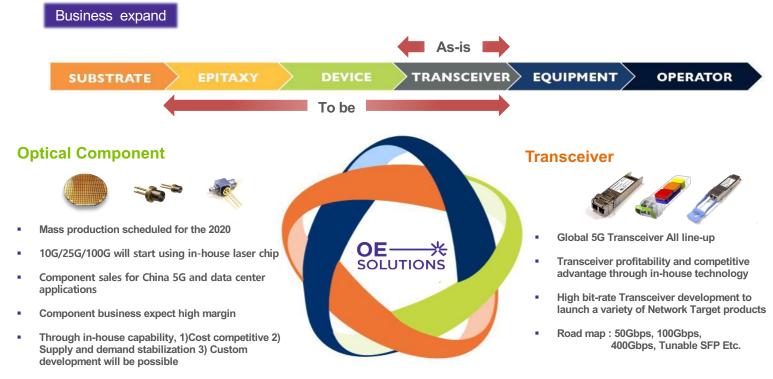
Smart Transceiver Revenue (Unit: million KRX)



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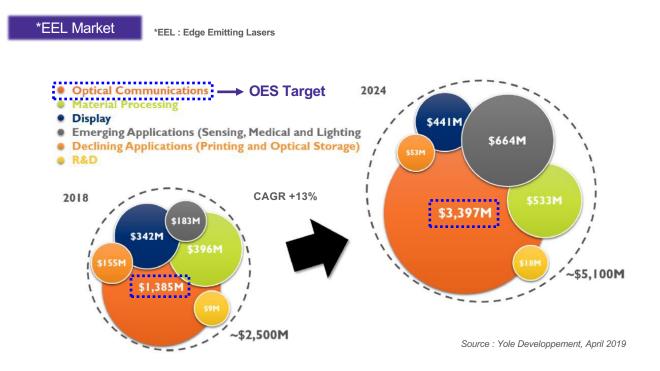




- Road map : 10G DML, 25G DFB, 25G EML, Tunable Chip
- 25G EML : Joint with ETRI



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





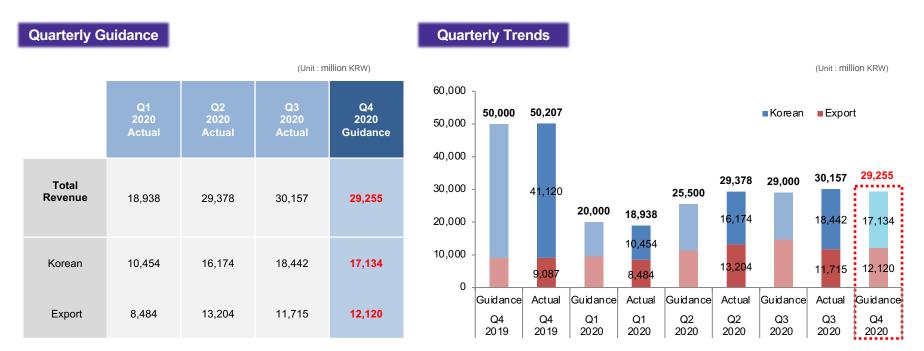
Q4 of 20 Guidance





Q4 Revenue is expected to 29.3B KRW

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



X Consolidated and forecast as of November 2020



Appendix

- Company Introduction
- Financials



SOLUTIONS

Overview

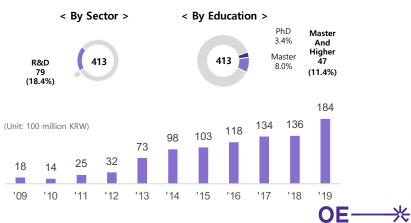
Name	OE Solutions, Co., Ltd	Date of Established	Aug.7, 2003
Number of Employees	413 (Korea: 393 / USA: 18 / Japan: 2)	Date of Listing	Feb.27, 2014(KOSDAQ code : 138080)
Product	Optical Transceiver	Homepage	www.oesolutions.com
Locations	Head Quarter : Gwangju, South Korea / US : Ridgefield Park, NJ, USA / J	IAPAN : Tokyo Japan	

(As of October.31,2020)

Locations



R&D Engineer & Cost

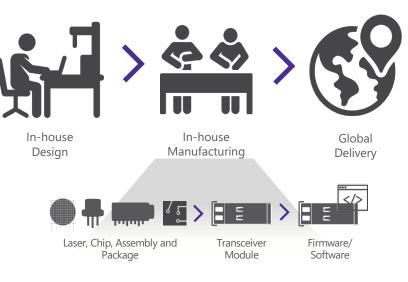


OE Solutions – A Global Supplier of Transceivers

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



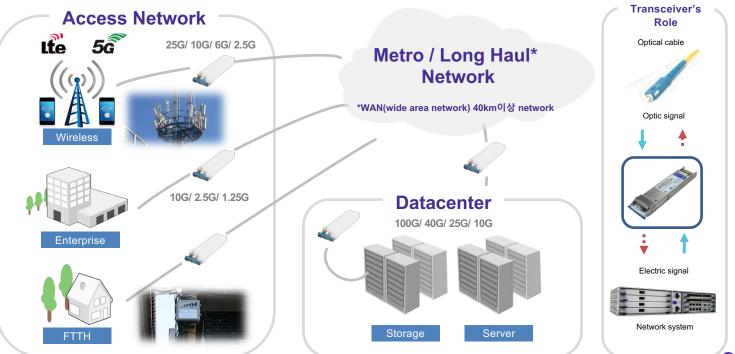




	Manufactur	ing Process	Manufacturing Technolog	ЗУ
Chip		Laser Diode Photo Diode	Epitaxy / Fabrication / Wafer Characterization	
Assembly		TO/ XMD (Cooled/ Uncooled)	Die Bonding, Wire Bonding, Seam Sealing, Burn-in, DC/AC Test	
Package	-	OSA (TOSA/ ROSA/ BOSA)	Laser welding, Epoxy bonding, DC/AC Test	
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	The second secon
Production		Own manufacturing, assembly & testing facility	Low cost, flexible production	

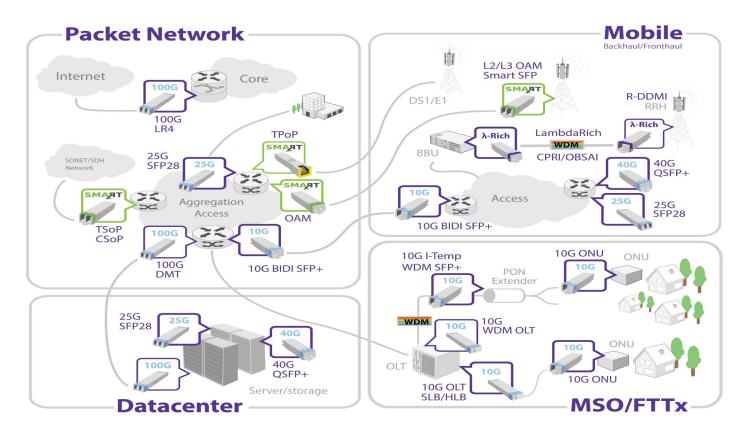


The use of Transceiver in the Network



Transceiver required for network connections





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Consolidated

	2017	2010	2010		2020	
	2017	2018	2019	Q1	Q2	Q3
Revenue (Sales)	76,594	81,504	210,283	18,938	29,378	30,157
Cost of sales	53,973	54,106	122,835	12,435	16,740	16,806
Gross profit	22,620	27,398	87,448	6,503	12,638	13,351
Selling general administrative expenses	24,538	27,164	29,186	7,903	8,462	8,314
Operating income(loss)	(1,917)	234	58,262	-1,400	4,176	5,037
Profit (loss) before tax	(3,788)	1,951	58,388	-154	4,107	5,085
Net income	(1,786)	2,584	46,065	175	3,793	4,514

(Unit : million KRW)

Separate standards

(Unit : million KRW)

	2017	2019	2010		2020	
	2017	2018	2019	Q1	Q2	Q3
Revenue (Sales)	76,535	81,406	210,242	18,938	29,377	30,153
Cost of sales	53,914	54,117	122,835	12,435	16,740	16,806
Gross profit	22,621	27,289	87,407	6,503	12,637	13,347
Selling general administrative expenses	25,174	26,925	28,533	7,813	8,867	8,848
Operating income(loss)	(2,553)	364	58,874	-1,310	3,770	4,499
Profit (loss) before tax	(4,514)	1,945	59,436	-70	3,759	4,702
Net income	(2,338)	2,641	47,026	260	3,410	4,098

* K-IFRS



Consolidated

					2020			
	2017	2018	2019	Q1	Q2	Q3		
Current assets	57,247	57,027	137,422	128,091	129,369	127,144		
Cash and cash equivalents	21,923	11,073	44,259	34,547	35,813	31,815		
Accounts receivable	14,626	18,969	33,138	17,459	27,854	19,562		
Inventory asset	18,840	19,740	24,222	27,946	25,353	23,466		
Non-current assets	38,809	42,125	46,945	53,174	58,043	65,679		
Property, plant and equipment	29,597	30,476	30,161	31,269	34,314	36,322		
Intangible assets	766	782	738	800	809	810		
Total assets	96,056	99,152	184,367	181,265	187,412	192,823		
Current liabilities	24,807	25,369	42,847	43,574	45,910	46,856		
Short-term debt	20,000	19,400	27,000	27,000	37,000	36000		
Non-current liabilities	4,302	5,736	2,211	2,277	2,336	2,332		
Total liabilities	29,110	31,105	45,059	45,850	48,246	49,188		
Capital	3,870	3,870	5,312	5,312	5,312	5,312		
Paid-in capital in excess of par value	26,969	26,969	52,031	52,002	52,002	52,002		
Retained earnings	33,937	34,868	79,731	75,660	79,453	83,967		
Total equity	66,946	68,047	139,308	135,414	139,166	143,635		

(Unit : million KRW)

Separate standards

(Unit : million KRW)

				2020					
	2017	2018	2019	Q1	Q2	Q3			
Current assets	55,648	55,790	136,299	127,306	127,649	125,020			
Cash and cash equivalents	20,662	10,227	42,423	32,555	32,592	24,730			
Accounts receivable	14,251	18,299	33,096	17,061	28,948	23,491			
Inventory asset	18,840	19,740	24,222	27,946	25,352	23,462			
Non-current assets	38,923	41,993	46,416	52,468	57,469	65,306			
Property, plant and equipment	29,306	30,119	29,192	30,273	33,338	35,455			
Intangible assets	105	54	36	32	27	23			
Total assets	94,571	97,783	182,715	179,774	185,118	190,326			
Current liabilities	25,309	26,119	43,065	44,127	46,012	47,095			
Short-term debt	20,000	19,400	27,000	27,000	37,000	36,000			
Non-current liabilities	4,228	5,643	1,676	1,688	1,737	1,764			
Total liabilities	29,538	31,761	44,740	45,815	47,74 9	48,859			
Capital	3,870	3,870	5,312	5,312	5,312	5,312			
Paid-in capital in excess of par value	26,969	26,969	52,031	52,002	52,002	52,002			
Retained earnings	31,650	32,638	78,461	74,475	77,885	81,983			
Total equity	65,034	66,022	137,975	133,959	137,369	141,467			



Thank you.



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