

股票简称：中际旭创

股票代码：300308



中际旭创股份有限公司

ZHONGJI INNOLIGHT CO., LTD.

(住所：山东省龙口市诸由观镇驻地)



300308







“ ”

“ AA ”

“ AA ”



30% 10%

50% 5,000

30%

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80%

2

40%

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20%

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2018	5	17	2017	2017
			473,857,056	10
		0.38	18,006,568.13	

2017

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2018 7 10

2018 7 11

2 2018

2019 5 15	2018	2018
	509,833,844	10
1.23		62,709,562.81
		10 4
203,933,537		713,767,381
2019 5 28	2018	
	2019 6 3	2019 6 4
3 2019		
2020 4 22		
2019		
713,165,136	10	0.84
	59,905,871.42	
		2019
2020 6 23	2019	
	2020 7 1	2020 7 2
2		

	2019	2018	2017
	5,990.59	6,270.96	1,800.66
	51,348.72	62,311.60	16,150.54
	11.67%	10.06%	11.15%
			14,062.20
			43,270.29
			32.50%



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2019 9 1

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2020 1

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175

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13,304.14

7.99%

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15%

"	"	2020	9	"	"	13%
13%						

2021 1 9

16,227.40

22.75%

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85%

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AA

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		InnoLight Technology USA, Inc.
		InnoLight Technology Pte. Limited
		InnoLight HK Limited
		InnoLight Technology (Thailand) Company Limited
		InnoLight Technology Pte. Limited Taiwan Branch
Avance		Avance Semi Inc.

		Google Capital Hong Kong Limited
		Lightspeed Cloud HK Limited
ITC Innovation		ITC Innovation Limited
		()

		2017	2018	2019	2020	1-9		
		2017	12	31	2018	12	31	2019
			2020	9	30			

/								
SFP		SFP	GBIC		GBIC			SFP
			" mini-GBIC"					
XFP					850nm	1310nm	1550nm	
CFP					40-100Gbps			
QSFP			SFP		QSFP			
OSFP			SFP		QSFP			
IQC								
Burn in								
DCI								
AOC								
DWDM								
CWDM							16	
ASON								
SDH								
MSTP			SDH					SDH
			TDM		ATM			
EPON								PON

GPON		ITU-TG.984.x
OTN		
DOU		
BBU		
CU		
DU		
AAU		BBU AAU RRU
PAM4		
FTTH		FTTD
PCB		
Gbps		IEEE802.3 (1Gbps) 1000
PIN		P - -N
APD		
VCSEL		
FP-LD		
DFBLD		
EML		
GaAs/InP		
SiGe		Ge
CMOS		
CE		
CB		
RoHS		

WEEE		
FDA		
FCC		
UL		
TUV		
IPTV		

	ZHONGJI INNOLIGHT CO.,Ltd.
	300308
	2005 6 27
	71,316.51
	0535-8573360
	0535-8573360
	265705

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300,000.00

300,000.00

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100

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6

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$$I=B \times i$$

I

B

" " " "

i

2

7

8

1



$$\frac{P_1}{2} = \frac{P_0 + A \times k}{1 + n + k}$$

$$P_1 = P_0 / (1 + n)$$

$$P_1 = (P_0 + A \times k) / (1 + k)$$

$$P_1 = (P_0 + A \times k) / (1 + n + k)$$

$$P_1 = P_0 - D$$

$$P_1 = (P_0 - D + A \times k) / (1 + n + k)$$

$$P_1 = \frac{P_0 - D + A \times k}{1 + n + k}$$

$$/$$

/

9

$$Q=V/P$$

Q

P

V

10

1

85%

2

11

1

2

130% 130%

3,000

$$IA=B \times i \times t/365$$

IA

B

i

t

12

1

70%

2

$$IA=B \times i \times t/365$$

IA

B

i

1-1-27

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13

14

15

16

1



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4

10%

17

300,000.00

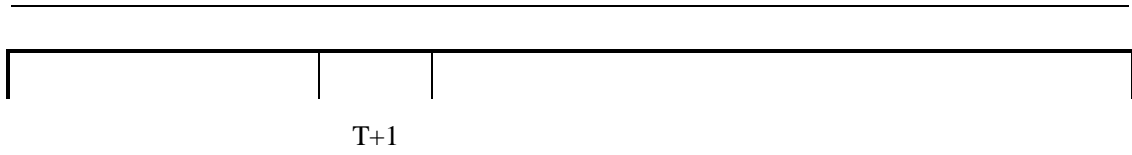
1		95,580.91	94,451.90
2		71,212.10	64,448.00
3		58,786.90	51,333.40
4		89,766.70	89,766.70
		315,346.61	300,000.00

18

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	6 SK 28/31/33/36/37
	010-59572288
	010-65681022/1838

	()
	202 2 11
	021-23238888
	021-23238800

	8 401
	021-52402166
	021-62252086

	7008 3
	0755-82872897
	0755-82872897

	2012
	0755-88668888

	0535-8573360
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	2012 22-28
	0755-21899999
	0755-21899000

2020 11 30

254,779 0.04%

443,0250 0.06%



2019	5	17	3,000
2019	9	1	

2020 1

175

13,304.14

7.99%

1-1-37



15%

			"	"	
"	"	2020	9		13%
13%					

2021 1 9

16,227.40

22.75%

60

85%





AA

AA

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2020 9 30

713,165,136

		%
	679,528,463	95.28
	33,636,673	4.72
	0	0.00
	33,454,673	4.69
	182,000	0.03
	713,165,136	100.00

2020 9 30

		129,564,140	18.17%	0	0
		60,471,383	8.48%	0	0
		50,239,391	7.04%	0	18,411,399
		28,560,469	4.00%	0	1,769,200
		28,508,022	4.00%	23,094,731	0
		23,539,230	3.30%	0	6,427,467
GIC PRIVATE LIMITED		20,218,495	2.84%	0	0
		20,067,541	2.81%	0	0
		18,719,624	2.62%	0	0
		17,243,103	2.42%	0	0
		397,131,398	55.68%	23,094,731	26,608,066

2020 9 30

2020 9 30

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2020 9 30

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		2020 9 30	2019 12 31
		981,387.86	813,106.35
		524,790.02	470,057.44
		2020 1-9	2019
		570,958.87	530,931.25
		51,212.89	617,16.06

2019 12 31 /2019)
 30 /2020 2020 0117 ;2020 9
 2

	2017 11 28
	5,000
	5,000
	100%

		2020 9 30	2019 12 31
		63,070.85	51,118.63
		51,278.77	42,058.79
		2020 1-9	2019
		5,378.11	12,667.46
		-874.62	-4,736.53

2019 12 31 /2019)
 XYZH/2020JNA20012 ; 2020 9 30 /2020

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2020 9 30

		2009-11-11	10,300	67.19%
		2017-10-25	118,539.7	100%
		2012-08-25	330	100%
		2018-09-21	1,500	100%
		2018-12-04	0.1	100%
		2019-08-26	1.49	99.99%
		2018-09-21	500	
Avance		2020-02-06	300	100%
		2019-03-04	10	100%
		2019-11-26	5,000	100%
		2019-12-04	5,000	100%
		2020-04-08	1,000	100%

2

	2019	/2019-12-31	60,323.08	25,479.66	52,872.62	1,871.10
	2020	1-9 /2020-09-30	67,589.99	26,657.03	21,438.76	1,475.64
	2019	/2019-12-31	120,985.52	49,279.72	53,026.18	4521.09
	2020	1-9 /2020-09-30	148,598.46	74,076.48	114,499.64	7,251.33
	2019	/2019-12-31	888.36	474.73	-336.87	-38.35
	2020	1-9 /2020-09-30	874.21	510.65	249.71	28.87
	2019	/2019-12-31	2,824.23	1,557.31	833.99	69.74
	2020	1-9 /2020-09-30	3,272.33	2,765.51	6,657.91	1,208.19
	2019	/2019-12-31	200.00	183.00		-17.00
	2020	1-9 /2020-09-30	200.00	183.00		
	2019	/2019-12-31	2,945.67	50.53	929.65	35.35
	2020	1-9 /2020-09-30	3,929.39	227.22	4,619.83	277.75
Avance	2019	/2019-12-31	-	-	-	-
	2020	1-9 /2020-09-30	24.75	24.75	-	-47.25
	2019	/2019-12-31	31.75	-44.19	155.33	-54.19
	2020	1-9 /2020-09-30	78.10	54.42	350.27	10.23

2019

2020

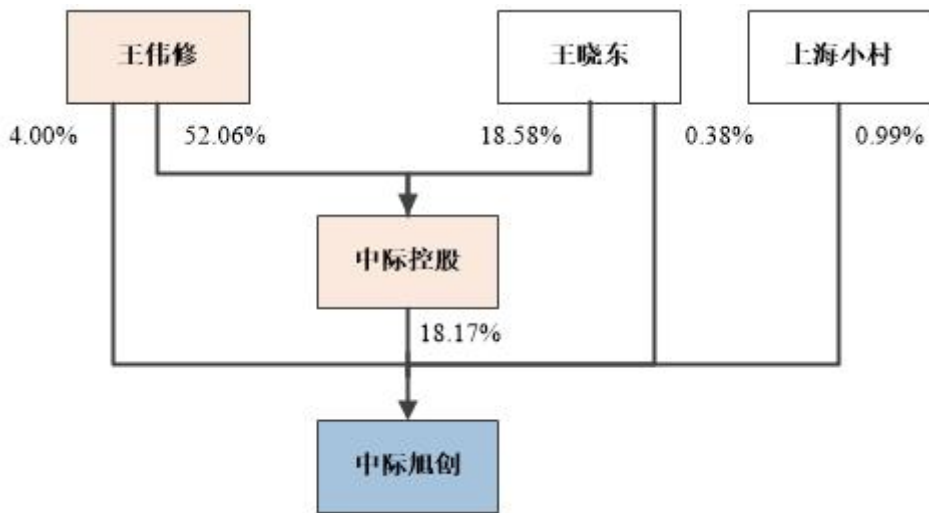
3

2020 9 30

		2018-08-24	101,000	2.97%
		2020-01-21	100,000	3%
		2018-02-07	1,250	20%
		2009-09-30	901	5.66%
		2018-03-29	12,882.4	82.79%
		2019-09-05	609.1288	3.10%
		2018-08-29	68,200	1.47%

1

2020 9 30



23.54%

2

	2,000
	1999

19		100,000	0.50%
20		100,000	0.50%
21		90,000	0.45%
22		90,000	0.45%
23		80,000	0.40%
24		60,000	0.30%
25		50,000	0.25%
26		50,000	0.25%
27		50,000	0.25%
28		40,000	0.20%
29		40,000	0.20%
30		40,000	0.20%
31		30,000	0.15%
32		30,000	0.15%
		20,000,000	100%

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2020 9 30

52.06%

2,850.80

16,789.97

23.54%

1950 11

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2020 9 30

1		1999-01-08	2,000			52.06%

2020 9 30

	187					
				2019 4 10	12	2019 4 10
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	113					

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			25%	2012 4 10	
			25%	2012 4 10	
			25%	2012 4 10	

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			11	2012 4 10		
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			6	2019 5 3	2019 4 9
			7,500 48.92 / 12 36	15,000 2019 6 6	2019 11 18

				2019 7 23	2020 7 22
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ITC
Innovation

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			1 2 3 4 5	2016 11 25		

	InnoLight Technology HK Limited ITC Innovation		1 / /			
			2 /	/		
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			4 / /		25	
			5 InnoLight Technology Corporation / / / /			
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			6	/ / / / 10%		
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			8			
			1	24		
			2			
			3		2017 07 14	2019 7 13
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			1 36			
			2			
			3		2017 07 14	2020 7 13
			4			
	InnoLight Technology HK Limited ITC Innovation		1 36 2018			
			2		2017 07 14	2020 7 13
			3			

			1	60		
			2	5%	60	2017 08 11 2022 8 10
			12			
			60	5	60	2017 8 11 2022 8 10
				60	/	2017 08 11 2022 8 10

			60			
	InnoLight Technology HK Limited ITC Innovation			/ /	2017 8 11	2022 8 10

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			2			
			Lee	Hsing Hsien Kung Osa Chou-shung Mok Wei-long William	2017 8 11	2022 8 10
			3	ITC Innovation Limited		

			<p>1 Innolight USA, Inc.</p> <p>3 Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p> <p>2 Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p> <p>2 Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p> <p>USA, Inc.</p>	<p>Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p> <p>Innolight USA, Inc.</p>	<p>2017 8</p> <p>11</p>	<p>2022 8</p> <p>10</p>
	Wei-long William Lee				2017 8	2022 8
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			2			
				/ /	2017 8 11	2022 8 10
			1	36	2017 08 11	2020 8 10

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187

2019 4 10

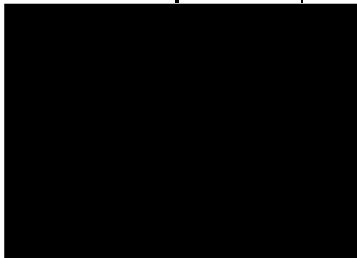
12

2019 4

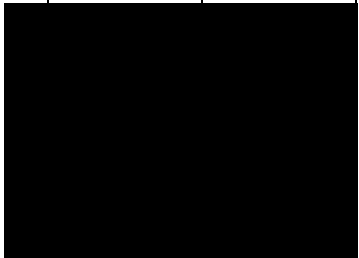
113

			25%		2012 10	4
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			2			
			3			
			1		2012 10	4
			2			
			3			
			4			
			5			
			6			

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			/		2012 4 10	

			/	2012 10	4	
			11	2012 10	4	
			11	2012 10	4	
				2018 20	6	2019 19 6
			6	2018	9	2019 3

					11	4
			6		2019 5	3 4
			7,500	15,000	2019 6	6 18
				48.92 / 12		
				36		
					2019 23	7 22
					2019 09	11 08

			5G	2019 11 09	2020 11 08

2019 12 19

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Osa Chou-ShungMok	

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1971 7

(TEEC)

Pine Photonics

Communications

Opnext Inc.

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2016

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2020 7

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1976 12

2015

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2016 1

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1970 7

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1955 4
1993 2 1995 5
1995 5 2000 9 Omni Vision
2000 5 2008 3
CTO 2008 3 2009 12 2017 9

1969 5

1994

1996 7

2019 2

1973 8

, 1996 7 1999 9

1999 10 2010 9

2009 9 2015 9

2015 2 2017 5

2011 9 2018 4

2020 12

1965 11

1987 7

2018 7

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1960 11

2008 1 2010 8

2010 3 2010 10
 2010 10 2010 10 2016 2
 2017 8 2017 9
 2016 2
 1971 10
 1990 1997 1997
 2017 9
 1981 5
 2003 7 2005 5 2005 5
 2011 1 2013 4 2015
 9 2015 9
 2017 9
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 Osa Chou-Shung Mok 1950 2
 University of Santa Clara MBA 1979 7 1985
 3 Hambrecht & Quist, San Francisco 1985 3 1992
 12 GTE 1993 1 1999 12 Sunnyvale
 2000 1 2003 12 Pine Photonics
 Communications 2004 1 2008 2
 Uniwave, Inc. 2008 4
 2018 3
 1971 11 2004
 2018 1



2010

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2005 8 2014 4

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2019

1		2017	-2021		
2017	9	6		2017	
<				2017	-2021
	>				
		2017-2021			
2017	9	13			
				2017	
				-2021	
		2017	-2021		
		2017	9	13	2017
					-2021
			355		14,862,520
		14,862,520		2017	9
					20
				2017	9
					25
		2018	8	10	
2018	8	10		211	164.7
2018	9	3			
2					
		2020	11		2020
					11
					16
				1,000	
7,1316.5136		1.40%		900	

7,1316.5136	1.26%	100	
7,1316.5136	0.14%		10.00%

2020 2020 12 14

148

899.90 2020 12 15
148 899.90

2020 9 30

2020 9 30

1		28,508,022
2		2,464,539
3		2,734,435
4		-
5		-
6		-
7		-
8		-
9		-
10		-
11		-
12	Osa Chou-Shung Mok	-
13		210,000
14		315,000

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2016 12 31

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2017 8 21

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7 9

5 2018 6 12
2018 6 12

6 2018 7 9 2018

7 2019 2 16

8 2019 2 26 2019

9 2020 6 9 2019

2020 6 10

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2016 12 31 3

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2 2017 8 22
2017 8 21

3 2017 9 6 2017

3

2016 12 31 6

1 2017 5 31

2 2017 8 21

3 2018 1 3
2018 1 2

4 2018 1 22

5 2018 1 23

6 2018 3 26

Osa

Chou-Shung Mok

2

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		2020	
2020 3 4		2020	5G
" 5G+ "	512	2019	5G 5G " 5G+ "
		2018	" " " " " " "
2018-2022		2017	25Gb/s DFB 200G 400G
		2017	2016-2018 " " 4
		2017	1.2 / 92 9022
		2017	2020 5G 98% 70% 85% 12Mbps
" "		2016	" "
2016 2020		2016	2020 "

		2016	
		2015	
		2015	
" 2015	"	2014	"
		2014	
"	"	2014	" "
		2013	2015 100Mbps 95% 20 Mbps 4Mbps
"	"	2013	2015 2020
		2013	
"	"	2012	2020 100Mbps 1,000Tbps
"	"	2012	
		2012	" "
"	"	2012	" " " "
"	"	2012	"
"	"	2012	Fttx

2009

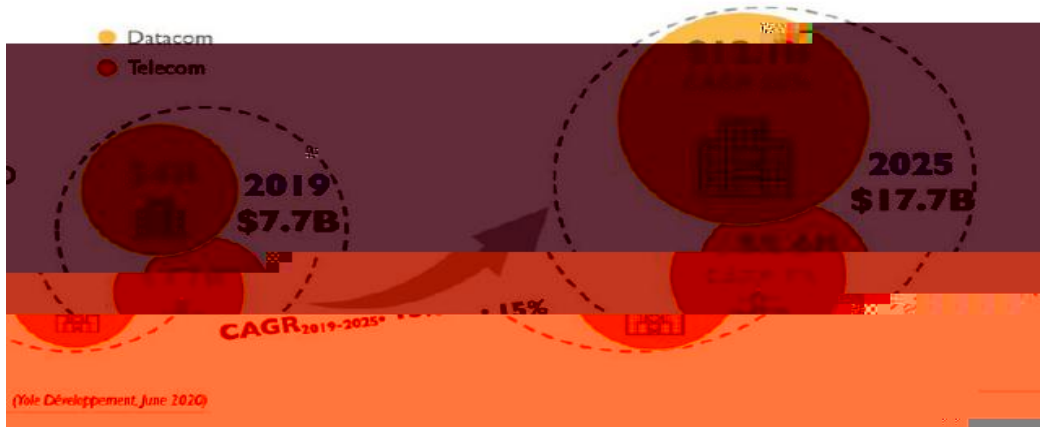
2011 " "

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1

2018

63	Yole	2019	77
22.22%	2020		Omdia
ICP			100G 400G
	DCI	400G	AI
		AOC	DWDM
2020			83
		2019	77
2019-2025			15
40	2025	121	20%
			7.79% 2025 Yole
			177
			2019

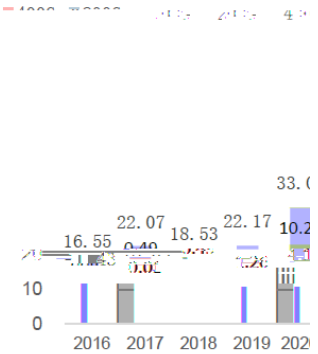
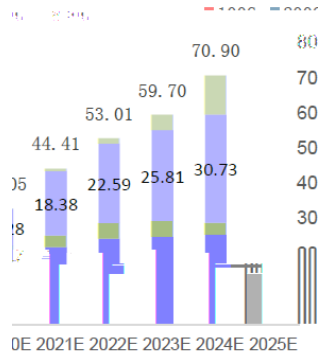
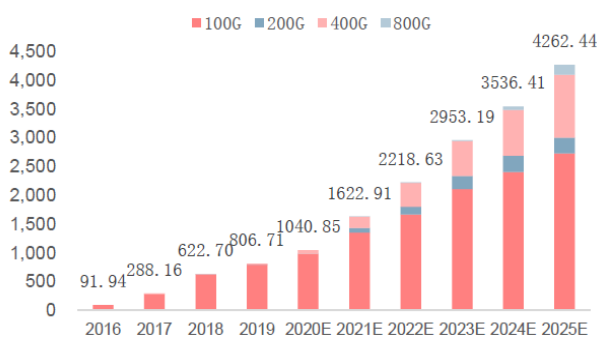


Yole

40/100G 100/400G 2020 400G
100G

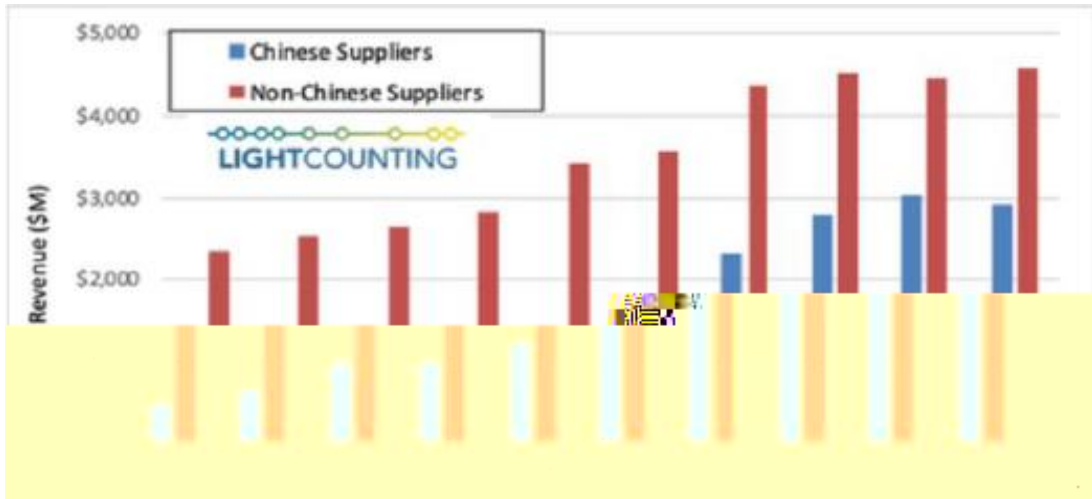


Lightcounting 2020 400G 60 2021
200 2021 400G 10 2020
140% 400G 100G 100G
100G 2020 14% 20
200G 2021 80
100G 100G



资料来源：Lightcounting

2010 5 2018 30 2019 2020
 5G Light Counting
 2020



Light Counting

Ranking of TOP 10 Transceiver Suppliers:

2010	2016	2018	Estimates for 2020
Finisar	Finisar	1 Finisar	Innolight
Opnext	Hisense	2 Innolight	Finisar/II-VI Photonics
Sumitomo	Accelink	3 Hisense	Hisense
Avago	Acacia	4 Accelink	Accelink
Source Photonics	FOIT (Avago)	5 FOIT (Avago)	Broadcom (Avago)
Fujitsu	Oclaro	6 Lumina	

Light Counting

9%

Finisar

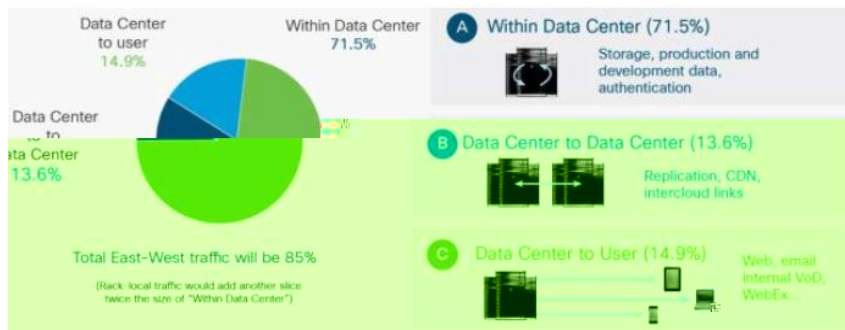


Datacenter



GCI2016-2021

2021



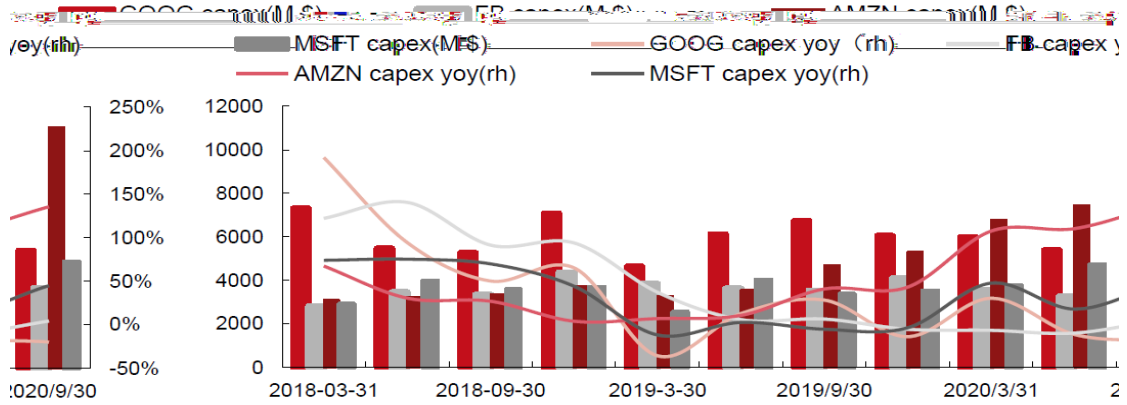
GCI2016-2021

IT

A.

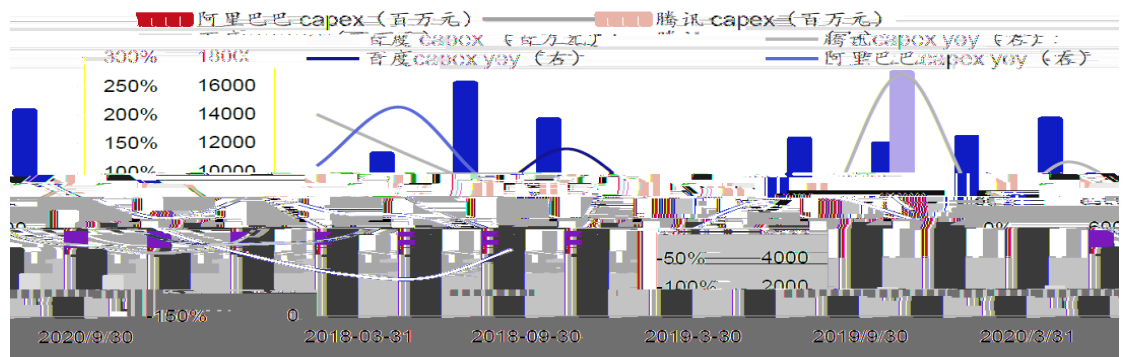
Company	2020 Revenue	2020 Profit Margin
Amazon	252.5	
Microsoft		36.6%
Google		20.5%
Facebook		

	Amazon	110.63	136%
2020		100%	
	Microsoft	49.07	
			45%
	Facebook		



Wind

	2020	142.80	16%
		86.84	31%



Wind

B.

1/10

1/10

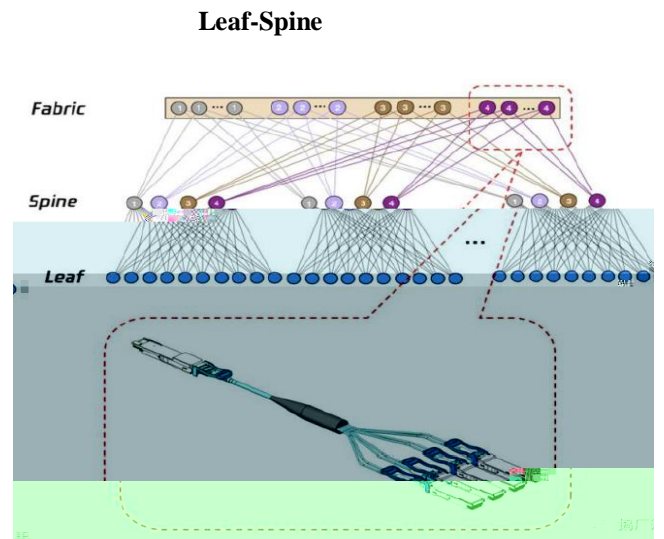
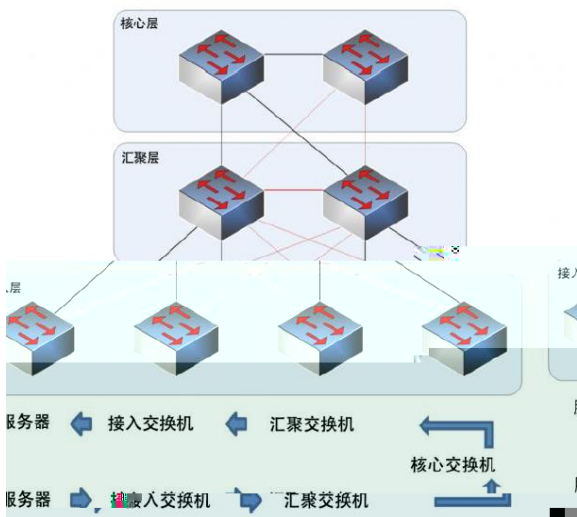
10 1

2021

85%

71.5%

13.6%



25/100G 50/200G/400G

	8.8	9.2	44 /48

51CTO

C.

2017

25G/100G/400G

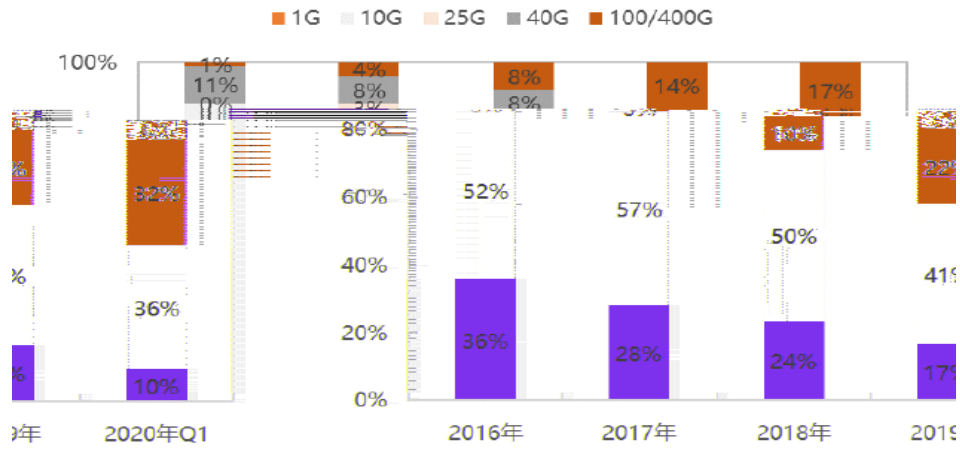
2017

1-1-100

7% 2020

50%

2016 -2020 Q1



Gartner
100G/400G

40G

2020 -2023

100G

2023

33,766

30%

2018

8%

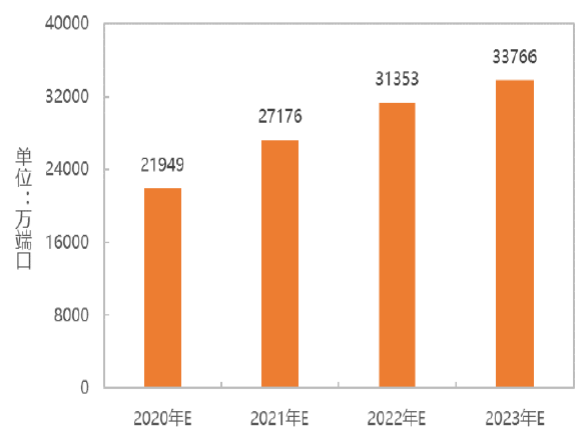
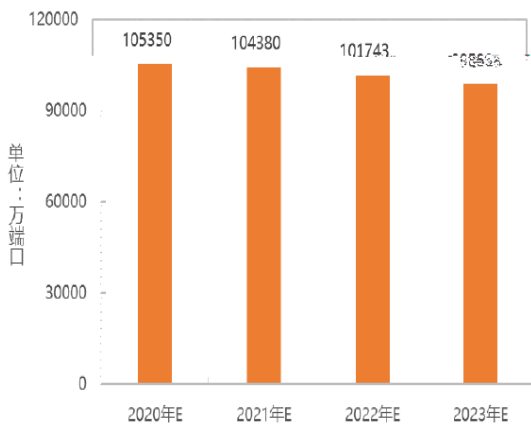
22

2-3

100G

100G

100G



Gartner

10Gbps

3m

1

100G

2

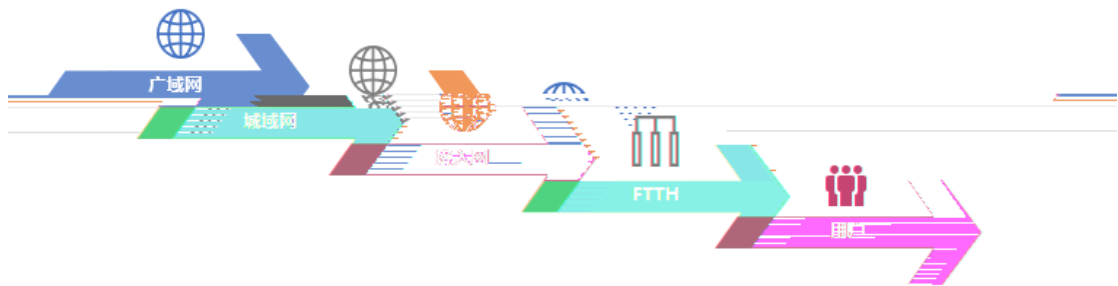
3

100G 200G 400G 800G

5G

A.

5G



IP ATM

" "

	- -	DWDM ASON
		SDH MSTP
		EPON GPON

100G OTN

2014

100GOTN

25%

100GOTN

100G

100G

2020 4

200G

200G

200GOTN

200G

B. 5G

2020

5G

5G

"

"

2020

5G

5G

2020

5G

2019-2023

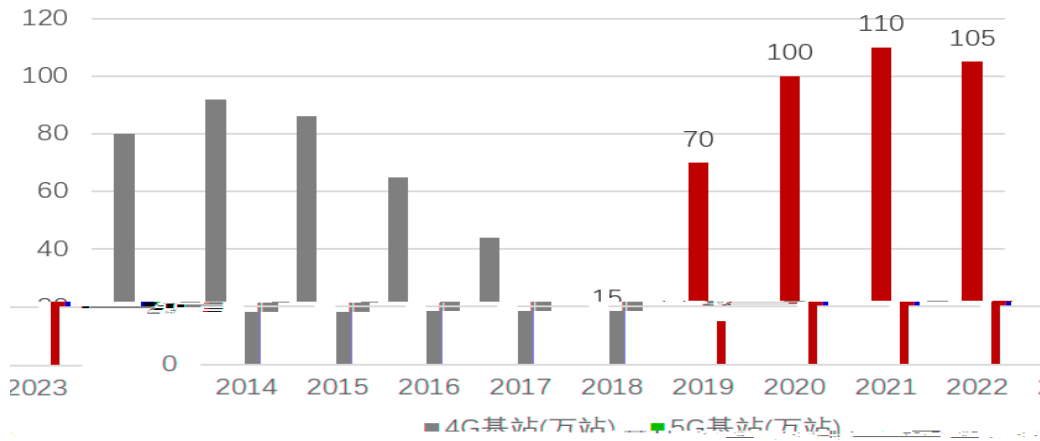
5G

400

5G

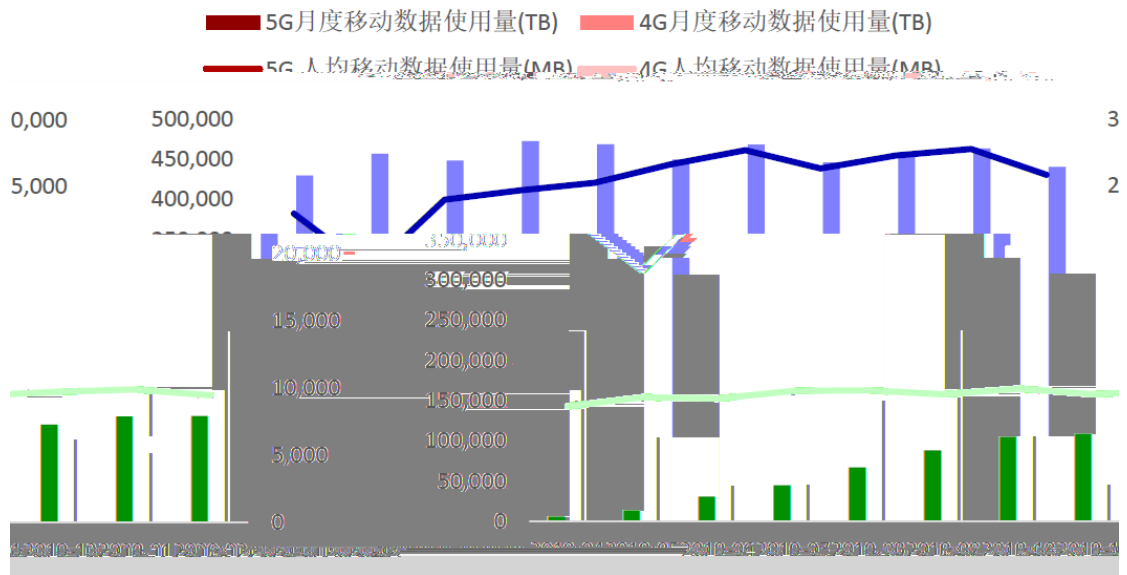
2,600

5G



Year	5G Base Stations (10,000)	4G Base Stations (10,000)	5G DOU (MB)	4G DOU (MB)	5G/4G DOU Ratio
2019	4	10	25.22GB	2.72	9.26
2020	2	10	25.22GB	2.72	9.26
2021	2	10	25.22GB	2.72	9.26
2022	2	10	25.22GB	2.72	9.26

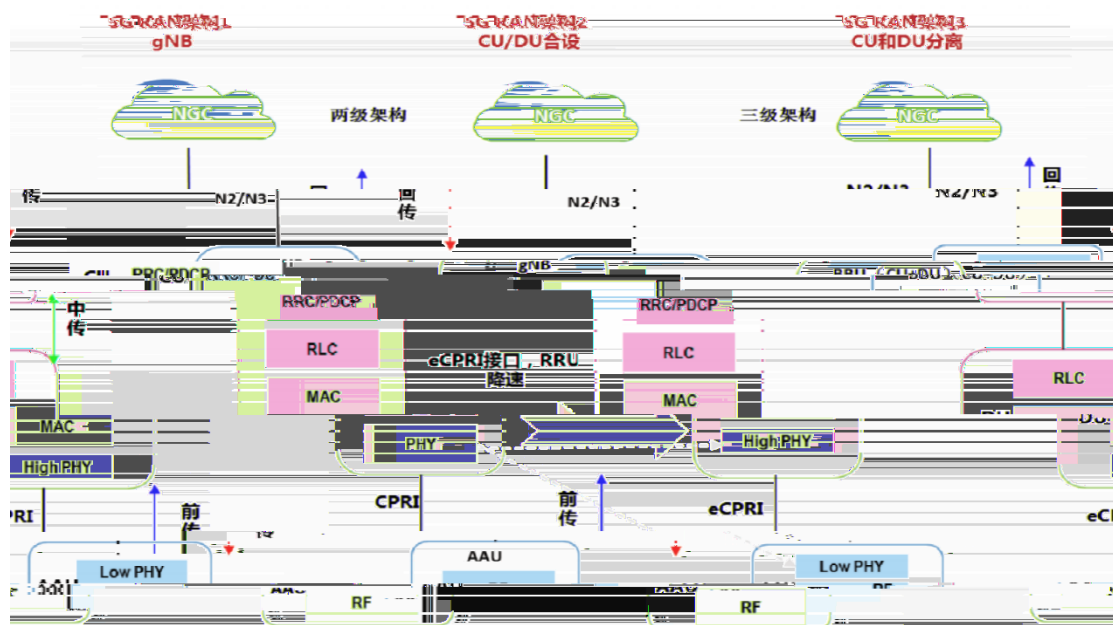
4G 5G



Wind

5G								
				5G				BBU
CU+	DU							
				CU	DU			
						4G		
6G	10GSFP+	80%		1.4km	20%	10km	4G	
	GE			10G				100G 5G
2020						AAU	DU	
	10G	25G				DU	CU	
				10G/40G		100G		100G 400G
2019		5G		4G				BUU DU
	CU					2020	5G	CU
	DU							

5G



NGOF

5G

4G 6G 10G 25G 50G

200G 400G

2018

7,000

5%

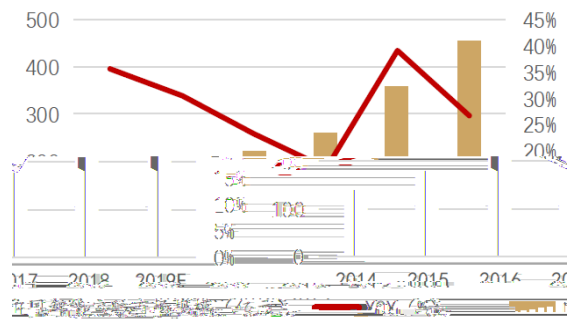
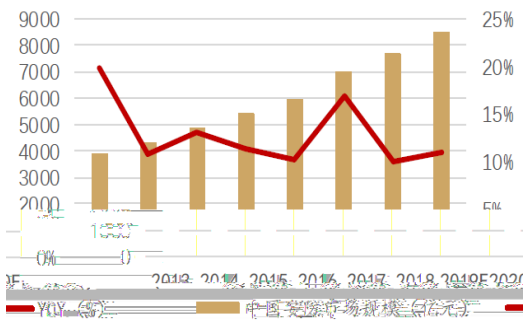
2018

359.2

2012-2018

26.8% 2019

455



20%

5

A.

VCSEL FPLD DFBLD EML

PIN APD

100G 400G

D.

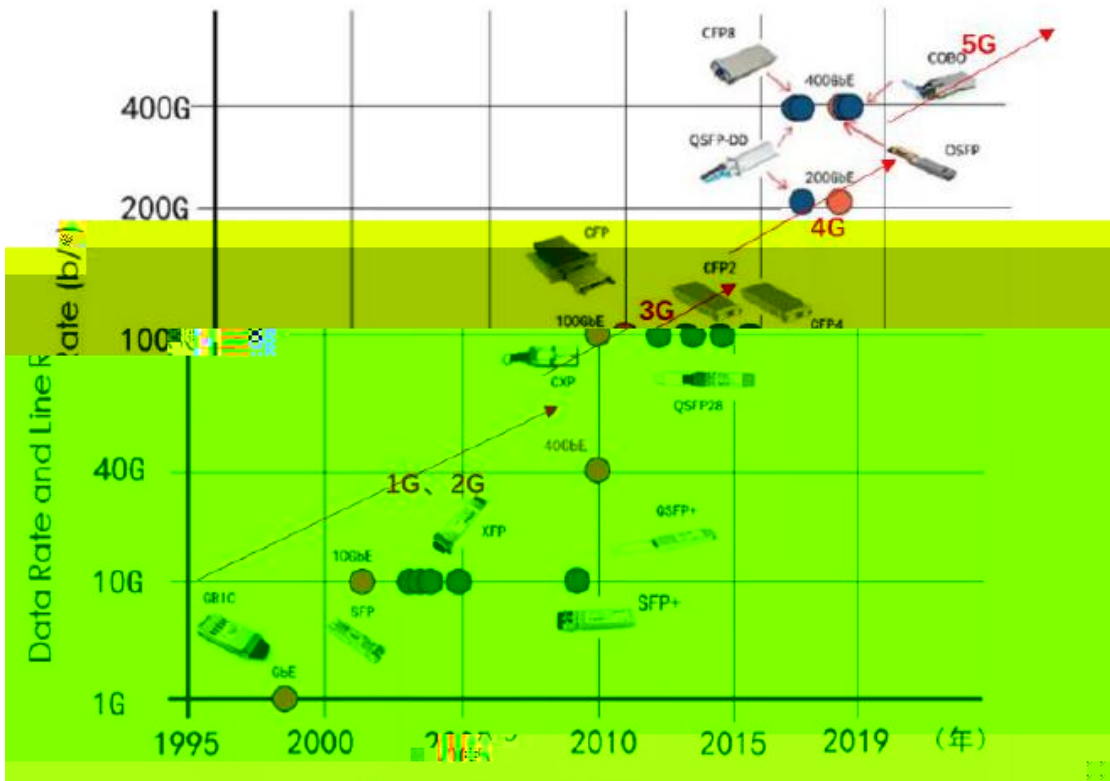
100

1550

(

1530

1565nm)



100G

400G/800G

CMOS

/

400G

PAM4

DRIVER MUX

400G

Luxtera

Intel

400G

Intel

100G

InP

400GQSFP-DDDR4

DR4

400G

1 4 Breakout

100GDR1/FR1

400G

WDM

Yole

2018 -2024

44.5%

2018

4.55

2024 40

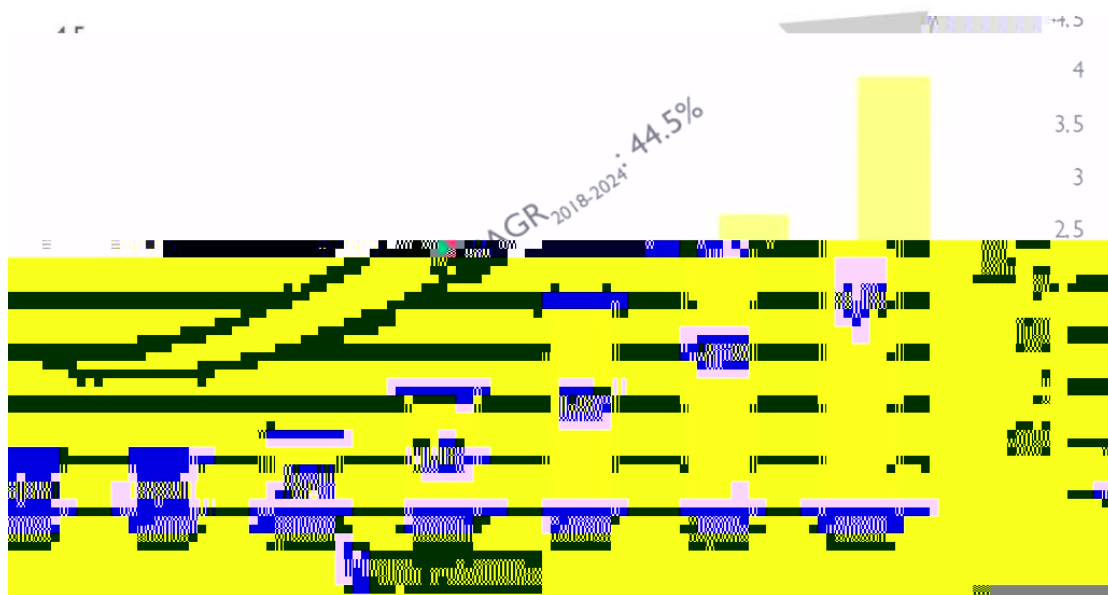
21%

2018

10

DCI

2018-2024



Yole

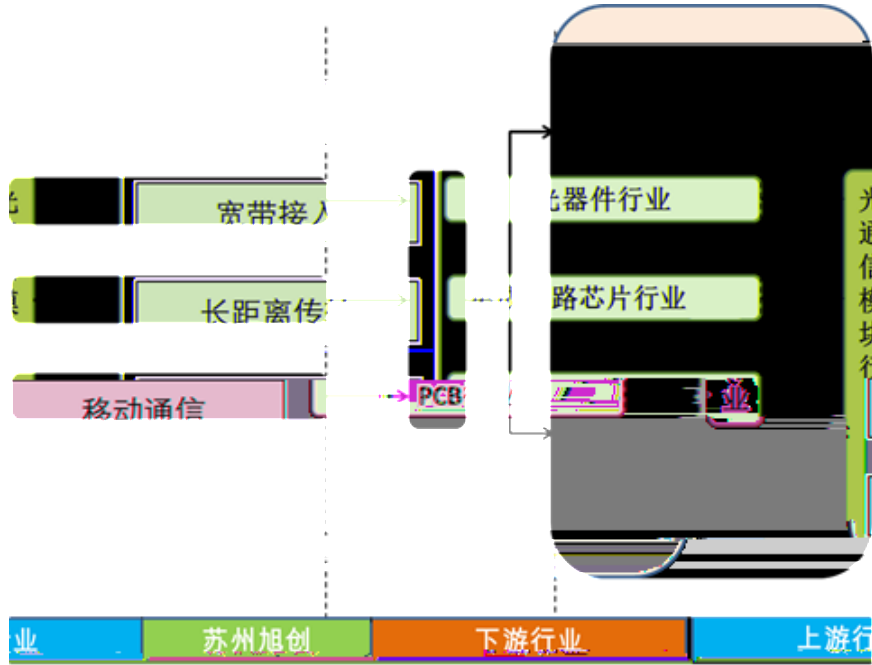
2

1

2

1

PCB



1

PCB

PCB

2

5G

1-1-111

2

1

2

2

CE CB

RoHS/WEEE

FDA FCC

UL

3

2

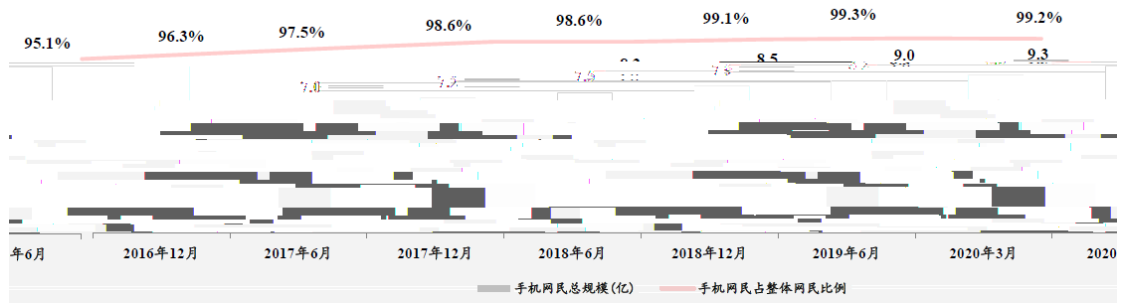
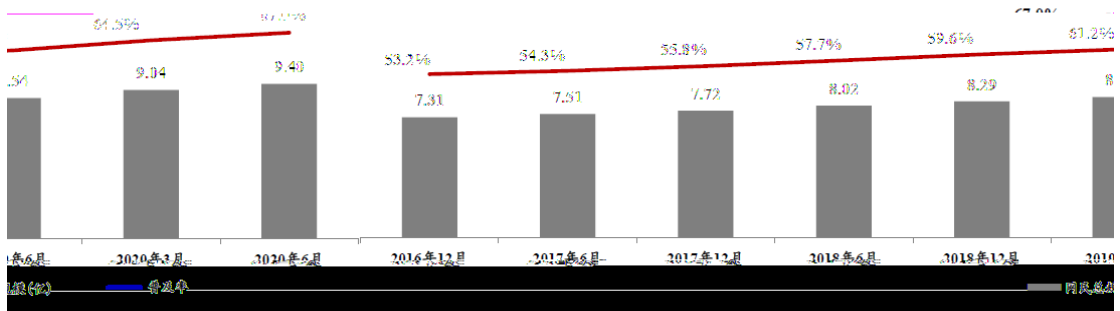
3

4

1

1

FTTH 4G/5G



CNNIC

IPTV

100G/400Gbps

DWDM

5G

A.

B.

100G	40G	25G	10G
Finsar	AAOI	Source	

2

1

2012-2020

2

1

1

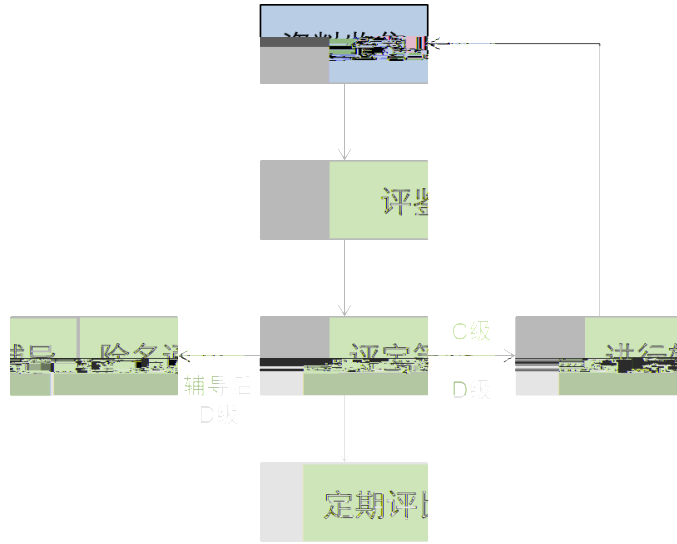
A.



B.

D

C



C.

IQC

10G/25G/40G/100G/400G

" "

A.

B.

C.

/

2

A.

“ ”

B.

C.

2-3

45

D.

"

"

"

1-1-122

“ ”

“ ”

“ ”

“ ”

“ ”

“ ”

PCB

2

1

1

2017 Finisar

Lumentum Oclaro 2018 Lumentum Oclaro II-VI

Finisar

		/	
2016.02		Almae	InP
2018.02	Lumentum	Oclaro	InP
2018.04		Macom	LR4 CWDM4
2018.07	Infinera	Coriant	
2018.11	II-VI	Finisar	
2019.04		Oclaro SPV	
2019.12		Lumentum	Donato San LiNbO3
2020.06			

Finisar Avago Source Photonics

A. Finisar

Finisar

B. Avago

Avago

C. Source Photonics

Source Photonics 2000

D.

E. 002281.SZ

2001

2009 8

2012 12

WTD

F. 000988.SZ

G. 300502.SZ

2008

FTTx LTE

ICT

2

ES

2

1

10G/25G/40G/100G/400G

100G/400G

800G

2017

OFC2019

400QSFP-DDDR4DEMO

2

3

1

10G/25G/40G/100G/400G

A.

B.

C.

5G

100G/400G

5G

10G/25G/40G/100G/400G

a.

b.

40G

Chip-to-chip

chip-to-board board-to-chip

chip-to-chip

c.

100G/400G

d.

ATS

4

D.

E.

40/100/400G

F.

G.

ISO9001:2015

TL9000 H6.0/R5.5

ISO14001:2015

ISO45001:2018









H.


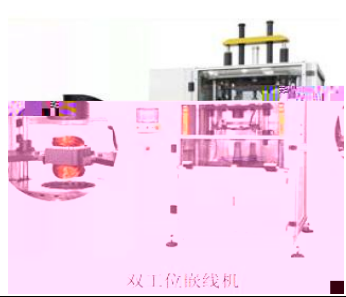



2

" "

1/5 1/2

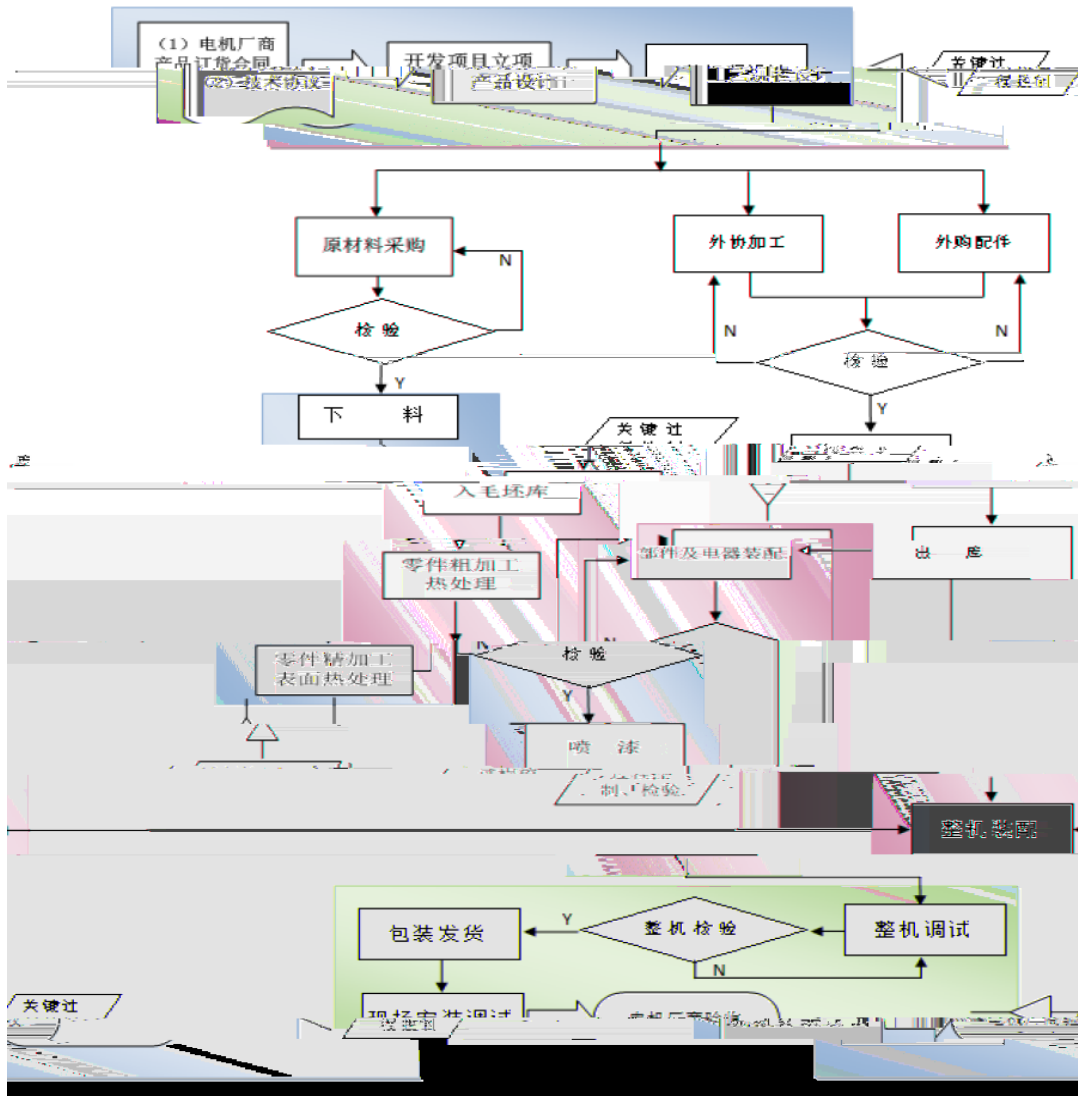
1

1	10GSFP+	
2	10GXFP	
3	25GSFP28	
4	40GQSFP+	
5	50G PAM4	
6	100GCFP4/QSFP28	 
7	100G Single Lambda	
8	200GQSFP	
9	400GOSFP	
10	400GQSFP-DD	

1			
2			
3			
4			

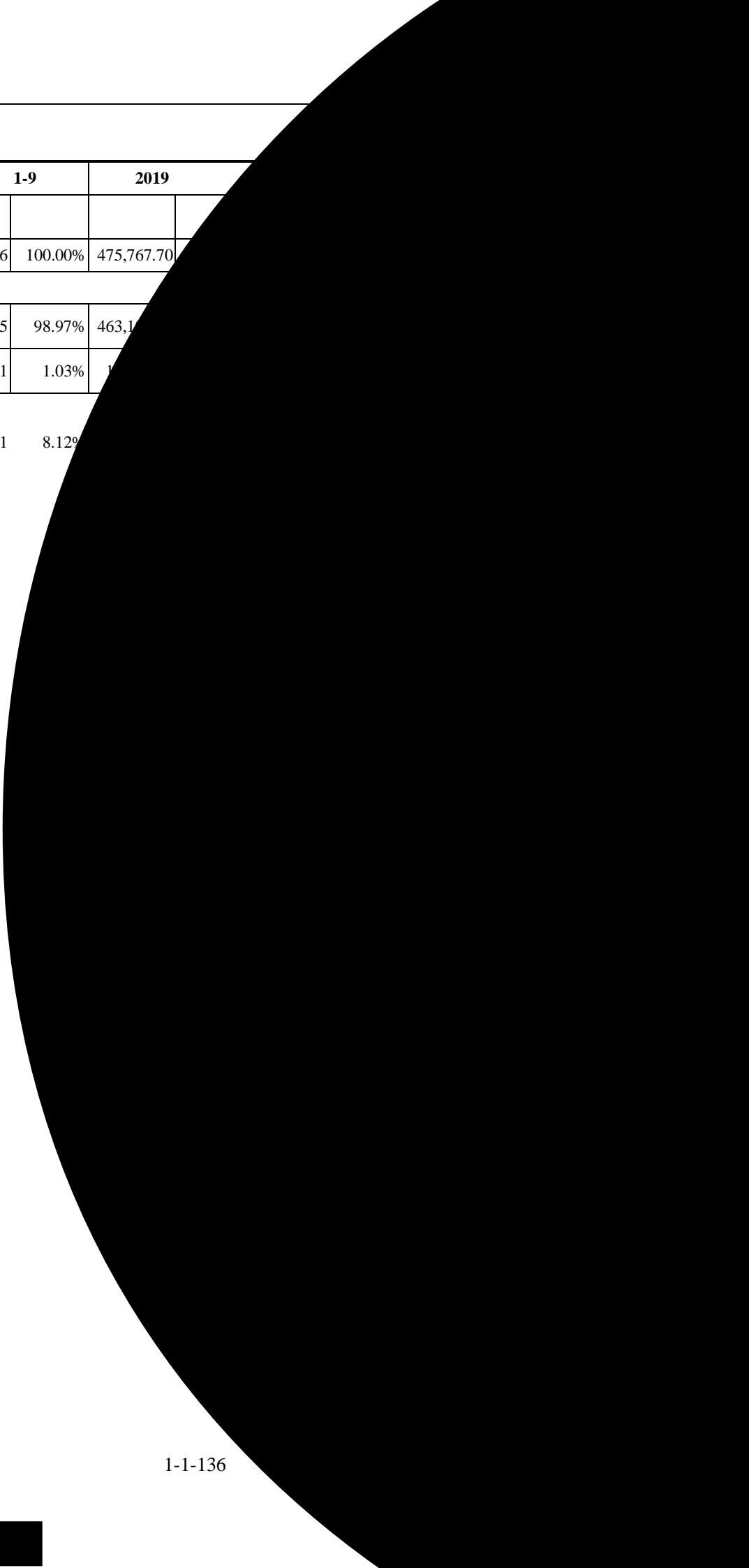
1





	2020	1-9	2019
	520,478.56	100.00%	475,767.70
	515,100.45	98.97%	463,1
	5,378.11	1.03%	1

10G/40G 42,243.91 8.12%



	269	264	98.14%
2017			
	/	/	
	199	153	76.88%
	202	208	102.97%

4

2020 1-9	A	109,453.83	21.03%
	B	63,663.02	12.23%
	C	58,242.37	11.19%
	D	52,100.11	10.01%
	E	20,899.17	4.02%
		304,358.49	58.48%
2019	A	85,046.43	17.88%
	B	80,979.36	17.02%
	C	51,545.44	10.83%
	D	47,949.93	10.08%
	E	19,940.04	4.19%
		285,461.20	60.00%
2018	A	192,667.59	37.37%
	B	62,904.19	12.20%
	C	53,782.37	10.43%
	D	42,485.45	8.24%
	E	13,914.69	2.70%
		365,754.29	70.94%
2017	A	111,957.99	47.56%
	B	18,113.08	7.69%
	C	15,421.46	6.55%
	D	14,467.84	6.15%
	E	12,133.50	5.15%
		172,093.86	73.10%

5%

1

1

2 3

2

		2020	1-9	2019	2018	2017
			16,271	15,650	11,924	6,317
			216,763	197,488	221,800	152,552
			13.32	12.62	18.60	24.15
			47.64%	55.14%	62.83%	71.15%
			162,551	94,921	76,152	35,654
			154,046	101,358	75,702	36,843
			0.95	1.07	0.99	1.03
			33.86%	28.30%	21.45%	17.18%
			22,059	16,862	15,216	6,972
			43,795	35,569	32,495	23,959
			1.99	2.11	2.14	3.44

		2020	1-9	2019	2018	2017
			9.62%	9.93%	9.21%	11.17%

2020 1-9	A	50,812.80	11.17%
	B	50,700.90	11.14%
	C	31,652.73	6.96%
	D	23,349.96	5.13%
	E	19,593.77	4.31%
		176,110.16	38.70%
2019	A	36,802.15	10.09%
	B	26,465.13	7.25%
	C	25,855.57	7.09%
	D	20,648.60	5.66%
	E	19,920.40	5.46%
		129,691.85	35.55%
2018	A	44,917.13	12.72%
	B	39,447.32	11.17%
	C	26,911.09	7.62%
	D	17,838.15	5.05%
	E	15,502.69	4.39%
		144,616.37	40.95%
2017	A	26,974.32	12.58%
	B	26,346.54	12.29%
	C	15,841.52	7.39%
	D	15,169.54	7.08%
	E	12,897.71	6.02%
		97,229.63	45.36%

5%

1

	2020 1-9		2019		2018		2017	
	360,244.83	69.21%	345,600.45	72.64%	380,800.32	73.85%	178,450.75	75.71%

	160,233.73	30.79%	130,167.25	27.36%	134,831.10	26.15%	57,257.60	24.29%
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2

CE CB

RoHS/WEEE

FDA FCC

UL

3

1

2

4

Finisar Avago Source Photonics Intel Applied Optoelectronics

1 Finisar

Finisar

2 Avago

Avago

3 Source Photonics

Source Photonics 2000

4 Intel

Intel 1968

5 Applied Optoelectronics

Applied Optoelectronics 1997

	2020 1-9		2019		2018		2017	
		%		%		%		%
	580.27	1.95%	8,336.36	18.70%	3,010.44	8.87%	-	0.00%
	29,224.40	98.05%	36,235.31	81.30%	30,947.28	91.13%	12,930.50	100.00%
	29,804.67	100.00%	44,571.67	100.00%	33,957.72	100.00%	12,930.50	100.00%

	2020 1-9	2019	2018	2017
	29,804.67	44,576.67	33,957.72	12,930.50
	520,478.56	475,767.70	515,631.42	235,708.35
	5.73%	9.37%	6.59%	5.49%

		2011	
(COB,chip-on-board)		2011	40G/100G/400G/800G
		2011	40G/100G/400G/800G
	COB	2014 COB	100G/400G/800G
PAM4		2017 4x100GPAM4 400G/800G	4x100GPAM4 400G/800G
		2018 5G 5G	200G/400GPAM4 200G/400G 5G

2

"

" " " " 2 "

2020 9 5,470 1,256
22.96%

2020 9 5

1			Georgia Institute of Technology Agere System Pine Photonics Communications Opnext 2008
2			ant aCruz UCS 9 Opnext 2003 PinePhotonicsCommunic ations Fusecoupler Freespace PLC CWDM10G/40G
3			2009 40G/100G 400G
4			25 (OSA Fellow) IEEE Sun/Oracle Axalume , 137 2020
5			Georgia Institute of Technology Baird Intel Intel 2008

1

2020 9 30

	61,604.45	9,713.16	-	51,891.29
	265,603.78	59,917.37	245.83	205,440.59
	2,329.34	1,023.54	0.01	1,305.79
	1,737.03	1,062.66	-	674.37
	6,814.66	2,976.68	-	3,837.98
	338,089.27	74,693.40	245.84	263,150.02

2

2020 9 30

	84.57%		
	83.27%		
	82.09%		
	79.15%		
	74.63%		
	70.26%		
	65.65%		

3

2020 9 30

				m²		
1		2019 0021360		6,046.65		
2		2020		56,393.90		

				m ²		
		0049517				
3		2016 000044	8	44,498.69		
4		2018 0000568	5555 1	9,022.96		
5		2018 0000570	5555 1	4,093.76		
6		2018 0000571	5555	4,575.18		
7		2020 0000142	5555 #4	15,041.32		
8		2020 0000143	5555 #5	8,707.49		
9		2020 0000144	5555 #7	368.44		
10		2019 0017375	8	26,733.52		

4

2020 9 30

1			2018.06.01-2021.09.30	265	42
2			2020.10.15-2022.10.14	128	N
3			2020.01.26-2021.01.25	3	
4			2020.10.21-2021.10.20	601-1A 6	3 4 6 601-1B 601-3 601-5 601-6
5			2020.05.01-2021.04.30	18	135 2802

6			2020.07.29-2021.07.28	2 2520	788
7			2020.05.01-2021.04.30	28 501	108
8			2020.09.01-2030.08.31		
9			2020.09.01-2025.08.31	101 104 2F 201 202 204 211 212 3F 4F 5F 3 A H 3 4 I 3 4 5	168 1 1F
10			2020.09.01-2025.08.31	G F	168 3 E
11		German Centre for Industry and Trade Pte Ltd.	2019.10.01-2021.09.30	Unit no(s). #03-60B on the third floor of the German Centre	
12		Stars Microelectronics (Thailand) Public Company Limited	2019.09.17-2021.09.16	Bang Pa-in Industrial Estate, 605-606 Moo2 Klongjig, Bang Pa-In, Ayutthaya 13160 Thailand	
13			2020.04.01-2023.03.31	3763-000 02646-00/02647-00	3 1
14			2020.11.11-2021.11.10	48-1	186 17
15			2020.01.31-2021.01.31		342 11
16			2019.09.01-2022.08.31	4	136 3

1

2020 9 30

			m²				
1		2019 0021360	9,234	2052.04.02			
2		2020 0049517	137,418	2060.12.27			
3		2016 000044	50,001.27	2056.12.29		8	

			m ²						
4		2018 0000568	120,138.67	2061.03.31			5555 1		
5		2018 0000570						5555 1	
6		2018 0000571						5555	
7		(2020) 0000142						5555 4#	
8		(2020) 0000143						5555 5#	
9		(2020) 0000144						5555 7#	
10		2019 0017375			19,004.29	2037.12.26			8

2

2020 9 30

238

92

143

3

1		200610070539X				2006/11/24

2

2009100170340

2009/7/9



73		2016209505716				2016/8/27
74		2016209506297				2016/8/27
75		2016209566476				2016/8/27
76		2016209629507				2016/8/27
77		2016209635758				2016/8/29
78		2016209577610				2016/8/29
79		2016107377205				2016/8/29
80		2016107430724				2016/8/29
81		2016209748493				2016/8/30
82		2016209742923				2016/8/30
83		2017217399145				2017/12/14
84		201721739915X				2017/12/14
85		2017217399747				2017/12/14
86		2017217399751				2017/12/14
87		201721739986X				2017/12/14
88		2017217399874				2017/12/14
89		2017217399840				2017/12/14
90		2017217399709				2017/12/14
91		2017217399696				2017/12/14
92		2017217399319				2017/12/14
93		2018212864465				2018/8/10
94		201821286447X				2018/8/10
95		2018212864484				2018/8/10
96		2018212867092				2018/8/10



121		2012101543152			2012/5/18
122		2013101145249			2013/4/3
123		2013101143262			2013/4/3
124		2013101640848			2013/5/7
125		2013101641855	SCSI		2013/5/7
126		201310164210X	SCSI		2013/5/7
127		2013102998145			2013/7/17
128		2013103129043			2013/7/24
129		2014102174722			2014/5/22
130		2014102197796			2014/5/22
131		2014102573120			2014/6/11
132		2014103084102			2014/7/1
133		2014104450799			2014/9/3
134		2014106267251			2014/11/10
135		2014107316397			2014/12/5
136		2014108241824			2014/12/26
137		2014108514766			2014/12/31
138		2014108518273			2014/12/31
139		2015100926758			2015/3/2
140		2015101137805	APD		2015/3/16
141		2015103196738	/		2015/6/11
142		2015103332573			2015/6/16
143		2015103327908			2015/6/16
144		2015103732114	PCB		2015/6/30

145		2015106612398				2015/10/14
146		2015106958057				2015/10/22
147		2015109396367				2015/12/15
148		2016100821996				2016/12/5
149		2016102798316				2016/4/28
150		2016102721117				2016/4/28
151		2016102809382	APD			2016/4/29
152		2016102883554				2016/5/4
153		2016103888019				
154		2016107698386				
155		2017100053464				
156		2017101989880				
157		2017105917881				
158		2017105917805				
159		2017109960541				
160		2018101670437				
161		2010205804317	CFP-LR4			2010/10/28
162		2011201364384				2011/5/3

163

169		2014200697730			2014/2/18
170		2014200695754			2014/2/18
171		2014201186959			2014/3/17
172		2014201729461			2014/4/11
173		2014201729315			2014/4/11
174		2014201839989			2014/4/16
175		2014203088005			2014/6/11
176		2014203216605			2014/6/17
177		2014203621682			2014/7/2
178		2014203830141			2014/7/11
179		2014204497339			2014/8/11
180		2014206809640			2014/11/14
181		2014208682409			2014/12/31
182		2015201537362			2015/3/18
183		2015208625449	BOSA		2015/11/2
184		2017215506000			2017/11/20
185		2017218072573	SFP+		2017/12/21
186		2018207978057			2018/5/28
187		2018208926793			2018/6/8
188		2018215361167			2018/9/19
189		2018216471056			2018/10/11
190		2018218520822			2018/11/12
191		2019200753108			2019/9/6
192		2019202778881			2019/3/5

193		2019204478345				2019/4/4
194		2019208372814				2019/6/5
195		2020200154053				2019/7/3
196		201921022606X				2019/7/3
197		2019213040537				2019/8/13
198		2019213375456				2019/8/16
199		2019213275373	TO			2019/8/16

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217		2014100543898				2014/2/18
218		2014100544528				2014/2/18
219		2013101640725				2013/5/7
220		2013101641982				2013/5/7
221		2018208482237				2018/5/25
222		2017215235297				2017/11/15
223		2017215235634	RFoG			2017/11/15
224		2017207281217				2017/6/20
225		2016214655003				2016/12/29
226		2016208997963				2016/8/18
227		2016203918255				2016/5/4
228		2016203918274				2016/5/4
229		2016203918289				2016/5/4
230		2016203918293				2016/5/4
231		2016203918306				2016/5/4
232		2015208104136				2015/10/20
233		2015208105302				2015/10/20
234		2015208116059				2015/10/20
235		2012204682608				2012/9/14
236		2011103898785				2011/11/30
237		2011204886899				2011/11/30
238		202020845822				2020/5/20

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1	US9515741B2	OPTICAL TRANSCEIVER MODULE AND METHOD OF ASSEMBLING THE SAME()	2015/4/22
2	US9513448B2	OPTICAL ASSEMBLY()	2015/4/8
3	US9847620B2	LASER DRIVER, DRIVING METHOD, AND HIGH-SPEED OPTICAL MODULE()	2016/12/5
4	US9866328B2	OPTICAL MODULE()	2015/4/29
5	US9946039B2	OPTICAL TRANSCEIVER MODULE()	2015/4/27
6	US9915780B2	OPTICAL MODULE WITH A DUAL LAYER PCBA STRUCTURE(PCBA)	2017/6/20
7	US10193635B2	LOW-POWER APD BIAS CONTROLLER BIAS CONTROL METHOD, AND PHOTOELECTRIC RECEIVER(APD)	2016/3/15
8	US10180543B2	OPTICAL PATH CONTROL SYSTEM AND OPTICAL MODULE()	2017/1/24
9	US10185144B2	OPTICAL ASSEMBLY AND OPTICAL MODULE ()	2017/1/25
10	US10107978B2	OPTICAL MODULE AND ASSEMBLY METHOD THEREOF()	2017/3/27
11	US10302879B2	OPTICAL COMMUNICATION MODULE()	2017/9/12
12	US10254492B2	OPTICAL MODULE AND ASSEMBLY METHOD THEREOF()	2017/12/22

13		US10578817B2	SUBSTRATE PACKAGING STRUCTURE INCLUDING CONDUCTIVE BLOCKS AND CONDUCTIVE AREAS FORMED ON SUBSTRATES AND OPTICAL MODULE INCLUDING SAME()		2018/1/4
14		US10495832B2	OPTICAL MODULE INCLUDING HEAT SINK ARRANGED IN HOUSING ()		2018/7/2
15		US10455737B2	OPTICAL MODULE()		2018/11/1

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2019 2 27 SENKO
 ADVANCED COMPONENTS, INC. " Senko"
 4 " CS "
 2019 2 27 20

1	Senko	US10228521B2	NARROW WIDTH ADAPTERS AND CONNECTORS WITH MODULAR LATCHING ARM		2019/3/12
2	Senko	US10520689B2	RECEIVER DEVICE FOR ACCEPTING NARROW WIDTH CONNECTORS		2019/12/31
3	Senko	US10539748B2	NETWORK SYSTEM OF NARROW WIDTH CONNECTORS AND RECEIVER DEVICES		2020/1/21
4	Senko	US10739533B2	RECEIVER CONFIGURED TO ACCEPT A REMOVABLE ANCHOR DEVICE FOR SECURING A FIBER OPTIC CONNECTOR WITHIN THE RECEIVER		2020/8/11

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1			32713684	39	2029/8/20	;
2			32705934	36	2029/5/13	;
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3			28476299	7	2028/12/13	;
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12		10211895	40	2023/1/20		; (); ; ; ; ; ; ;
13		10204386	38	2023/1/20		; ; ; ; ; ; ; ; ; ;
14		10204363	37	2023/1/27		; ; ; ; ; ; ; ; (); ; ; ; ; ;
15		10204312	36	2023/1/20		; ; ; ; ; ; ; ;
16		10204247	34	2023/1/20		; ; ; ; ; ; ; ;
17		10204183	33	2023/1/20		; (); ; (); ; (); (); ;
18		10204164	32	2023/1/20		(); (); ; (); (); ;
19		10204138	31	2023/1/20		; ; (); ; ; ; ;
20		10204108	30	2023/7/20		; ; ; ; ; ; ; ; ; ; ; ; ;
21		10204085	29	2023/1/20		; (); ; ; ; ; ; ; ; ; ; ; ; ();

43			10185649	7	2023/7/13	(); ; ; ; ; ; ; (); ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; (); ; ; ; ; ; ; ; ; ;.....
44			10185625	6	2023/4/6	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; (;); ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
45			10185482	4	2023/1/13	; ; ; ; ; ; ; ; ; ;
46			10178388	5	2023/4/6	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
47			10178355	1	2024/3/6	; ;.....
48			10178337	3	2023/1/13	; ; ; ; ; ; ; ; ; ; ;
49			10178301	2	2023/9/13	; ; ; ; ;
50			10177490	42	2023	

52		 中际	10177159	40	2023/1/13	; (); ; ; ; ; ; ;
53		 中际	10176845	37	2023/2/27	; ; ; ; ;
54		 中际	10176810	39	2023/2/27	; ; ; ; ;
55		 中际	10170894	29	2023/1/13	; (); ; ; ; ; ; ; ; ; ; ; ; ();
56		 中际	10170855	21	2023/1/13	; ; (;); ; ; ; ; ; (); (); ; ; ; ; ; ; ;
57		 中际	10170819	19	2023/3/6	; ; ; ; ; ; ; ;
58		 中际	10170793	17	2023/3/6	; ; ; ; ; ; ; ;
59		 中际	10170784	16	2023/2/27	(); ; ; ; ; ; ; ; (); ; ; ;
60		 中际	10170766	14	2023/1/13	; ; ; ; ; ; ; ; ();
61		 中际	10170757	12	2023/2/27	; ; ; ; ; ;

81			12717637	9	2025/3/27	(); ; ; ; ; ; ; ;
82			8792424	9	2022/2/20	; ; ; ; ; ; ; ; ;
83			25473792	9	2028/7/20	; ; ; ; ; ; ; ; ;
84			17807739	9	2026/10/13	; ; ; ; ; ; ; ; ;
85			17807733	9	2027/8/13	; ; ; ; ; ; ; ; ;

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1		-2017-F-00240163	Innovation Lights Our Future -1		2017.11.13
2		-2017-F-00240162	Innovation Lights Our Future -2		2017.11.13
3		-2017-F-00240161	Innovation Lights Our Future -3		2017.11.13

	3205263623	2011/7/20	3202604255		
	3407260065	2018/8/14	3403300008		

	3718932652		2017/11/14		
	3718963312		2017/12/27		

	3700776311009	2017/10/26		
	3700MA3EXKTH3	2018/01/08		
	3400MA2Q3DU66	2020/07/20		
	5101696260942	2018/04/03		

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			509,833,844	10
		1.23	62,709,562.81	

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	2019	2018	2017
	5,990.59	6,270.96	1,800.66
	51,348.72	62,311.60	16,150.54
	11.67%	10.06%	11.15%
			14,062.20
			43,270.29
			32.50%

	2020 9 30	2019 12 31	2018 12 31	2017 12 31
	1.93	2.12	1.45	1.46
	1.02	1.23	0.71	0.79
	41.83%	33.98%	40.89%	48.71%
	10.88%	8.88%	16.31%	18.31%

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	2020	1-9	2019	2018	2017
		-	-	-	4,551.13
		-	-	-	4,551.13
		-	-	-	1.93%

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	2020	1-9	2019	2018	2017
		722.43	1,139.62	1,129.37	304.57

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		2020 9 30	2019 12 31	2018 12 31	2017 12 31
		-	-	-	0.77

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		2020 9 30	2019 12 31	2018 12 31	2017 12 31
	Lux Net Corporation	-	-	-	361.31
		192.46	192.46	192.46	192.46

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	2020-9-30	2019-12-31	2018-12-31	2017-12-31

	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	136,324.53	123,619.09	104,118.01	95,723.18
	39,300.00	63,000.00	-	-
	-	-	4,037.26	8,807.53
	171,491.13	113,254.22	84,010.67	101,256.58
	56,066.23	36,043.68	-	-
	3,111.69	6,512.46	5,455.11	7,363.51
	2,369.04	972.94	368.21	905.17
	368,668.38	250,362.16	211,897.47	196,899.55
	101.34	318.73	-	-
	8,048.30	5,050.24	5,923.88	19,820.07
	785,480.64	599,133.53	415,810.61	430,775.59
	1,347.88	122.60	419.32	318.73
	19,307.30	22,107.30	10,252.02	2,540.35
	2,258.84			
	263,150.02	194,986.02	149,656.16	116,210.01
	12,218.16	15,060.12	14,809.97	10,948.31
	36,546.96	31,100.18	38,384.68	45,417.78
	2,425.13	9,561.19	3,010.44	-
	191,456.34	171,675.84	171,675.84	171,675.84
	2,285.44	1,765.04	1,605.48	210.97
	2,970.39	2,838.90	1,511.50	2,290.78
	1,979.15	765.90	884.09	613.91
	535,945.61	449,983.08	392,209.49	350,226.68
	1,321,426.26	1,049,116.61	808,020.10	781,002.27
	98,997.16	65,228.64	38,980.16	43,443.64
	68,959.43	17,199.21	14,034.64	27,035.88
	134,962.66	125,947.39	80,158.90	140,361.80
	-	3,065.21	1,690.56	2,204.77
	7,439.18	-	-	-
	13,753.13	11,408.54	7,679.84	7,425.48
	1,240.98	1,161.21	606.21	3,387.47
	44,672.47	30,511.55	37,357.94	36,120.92
	33,962.25	28,086.38	106,243.92	34,618.73
	3,274.27	-	-	113.00
	407,261.52	282,608.13	286,752.17	294,711.69

	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	106,105.34	46,550.00	26,950.61	24,127.64
	2,850.00	2,850.00	3,894.58	3,043.22
	6,838.08	6263.28	4447.10	3994.10
	13,203.71	7,293.48	6,901.73	4,514.02
	16,432.40	10,930.07	1,425.76	1,544.13
	-	-	-	48,481.64
	145,429.54	73,886.83	43,619.77	85,704.75
	552,691.06	356,494.96	330,371.94	380,416.44
	-			
	71,316.51	71,316.51	47,545.58	47,385.71
	510,974.42	506,411.88	369,650.18	355,503.31
	9,078.97	17,370.35	26,891.41	29,056.23
	-517.21	-11.09	45.12	16.40
	219.17	223.50	226.74	175.64
	2,691.74	2,691.74	2,027.56	1,332.26
	183,356.45	129,359.46	85,044.39	25,228.75
	758,962.11	692,621.65	477,648.16	400,585.83
	9,773.08	-	-	-
	768,735.20	692,621.65	477,648.16	400,585.83
	1,321,426.26	1,049,116.61	808,020.10	781,002.27

	2020 1-9	2019	2018	2017
" "	1,295.22	6,758.15	664.82	1,099.09
	-	5,393.34	506.67	332.39
" "	-	-	1,420.69	-10,924.41
" "	-3,327.87	-14,165.83	-6,601.78	-2,028.95
" "	-1.33	141.09	-	-
" "	5.83	-13.17	-0.25	-176.73
" "	69,944.79	57,637.53	68,189.45	20,587.00
	73.95	50.21	307.83	41.44
	237.05	20.06	-997.97	39.16
" "	69,781.69	57,667.68	69,495.25	20,589.28
	9,353.02	6,318.96	7,183.65	4,438.74
" "	60,428.67	51,348.72	62,311.60	16,150.54
	-			
1 " "	60,428.67	51,348.72	62,311.60	16,150.54
2 " "	-	-	-	-
1	59,987.58	51,348.72	62,311.60	16,150.54
2	441.09	-	-	-
	-506.12	-56.21	28.72	16.40

	2020 1-9	2019	2018	2017
	0.84	0.73	1.33	0.50

	2020 1-9	2019	2018	2017
	556,383.06	463,617.85	548,593.02	226,504.02
	47,784.41	37,151.97	66,637.48	24,802.46
	16,563.97	19,840.02	13,639.65	7,240.92
	620,731.45	520,609.85	628,870.16	258,547.39
	555,348.61	391,983.78	486,291.20	219,304.94
	51,501.67	53,693.63	50,647.63	12,221.56
	9,638.25	2,184.48	10,069.92	7,484.74
	17,878.02	15,802.19	15,860.06	15,300.44
	634,366.56	463,664.08	562,868.80	254,311.68
	-13,635.11	56,945.77	66,001.35	4,235.71
	359,540.00	333,810.00	-	2,313.05
	1,244.09	1,069.45	158.16	368.65
	9.27	82.08	512.53	154.72
	-	-	-	-
	-	-	15,000.00	47,506.39
	360,793.36	334,961.53	15,670.68	50,342.82
	69,326.44	75,930.64	60,773.50	42,077.83
	340,234.31	403,770.00	7,205.00	-
	11,077.19	-	-	-
	-	49,197.91	15,000.00	23,000.00
	420,637.94	528,898.55	82,978.50	65,077.83
	-59,844.58	-193,937.01	-67,307.81	-14,735.01
	-	152,390.90	5,204.52	75,956.22
	-	-	-	-

	2020 1-9	2019	2018	2017
	218,571.85	156,484.25	184,985.97	100,424.54
	-	-	130.82	200.00
	218,571.85	308,875.15	190,321.30	176,580.76
	121,263.01	140,538.48	169,894.36	74,457.11
	10,584.36	11,558.97	6,527.36	2,084.54
	-	-	-	-
	956.67	1,062.87	201.69	1,976.69
	132,804.05	153,160.32	176,623.41	78,518.35
	85,767.80	155,714.83	13,697.89	98,062.41
	-1,743.61	777.50	1,479.86	-672.51
	10,544.49	19,501.09	13,871.28	86,890.61
	123,619.09	104,118.01	90,246.72	3,356.12
	134,163.59	123,619.09	104,118.01	90,246.72

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3	2017 12 13 51,847.86 39,602.20 100%	2017 10 31 2018 1 2
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	2020-9-30 /2020 1-9	2019-12-31 /2019	2018-12-31 /2018	2017-12-31 /2017
	1.93	2.12	1.45	1.46
	1.02	1.23	0.71	0.79
	10.88%	8.88%	16.31%	18.31%
	41.83%	33.98%	40.89%	48.71%
	4.83	4.77	5.51	4.35
	1.61	1.44	1.76	1.64
	-0.19	0.80	1.39	0.09
	0.15	0.27	0.29	1.83
	5.73%	9.37%	6.59%	5.49%

$$\begin{aligned}
 & \frac{\text{2020-9-30}}{\text{2020 1-9}} - \frac{\text{2019-12-31}}{\text{2019}} \times 100\% \\
 & \frac{\text{2018-12-31}}{\text{2018}} \times 100\% \\
 & \frac{\text{2017-12-31}}{\text{2017}} \\
 & \text{2020 1-9} = \frac{\text{2019-12-31}}{\text{2019}} + \frac{\text{2018-12-31}}{\text{2018}} \times 100\%
 \end{aligned}$$

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	2020 1-9	8.31%	0.84	0.84
	2019	8.29%	0.73	0.73
	2018	14.32%	1.36	1.33
	2017	7.96%	0.50	0.50
	2020 1-9			

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2020-9-30

2019-12-31

55.16% 51.46% 57.11% 59.44%

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	2020-9-30		2019-12-31		2018-12-31		2017-12-31	
		%		%		%		%
	136,324.53	17.36	123,619.09	20.63	104,118.01	25.04	95,723.18	22.22
	39,300.00	5.00	63,000.00	10.52	0	0.00	0	0.00
	-	-	-	-	4,037.26	0.97	8,807.53	2.04
	171,491.13	21.83	113,254.22	18.90	84,010.67	20.20	101,256.58	23.51
	56,066.23	7.14	36,043.68	6.02	0	0.00	0	0.00
	3,111.69	0.40	6,512.46	1.09	5,455.11	1.31	7,363.51	1.71
	2,369.04	0.30	972.94	0.16	368.21	0.09	905.17	0.21
	368,668.38	46.94	250,362.16	41.79	211,897.47	50.96	196,899.55	45.71
	101.34	0.01	318.73	0.05	0	0.00	0	0.00
	8,048.30	1.02	5,050.24	0.84	5,923.88	1.42	19,820.07	4.60
	785,480.64	100.00	599,133.53	100.00	415,810.61	100.00	430,775.59	100.00

91.44% 96.20% 81.32% 86.12%

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	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	10.19	30.35	6.55	6.56
	123,999.64	123,588.74	104,111.46	90,240.16
	12,314.71	-	-	5,476.46

2020-9-30

2019-12-31

2018-12-31

2017-12-31

	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	171,491.13	113,254.22	84,010.67	101,256.58
	51.42%	34.81%	-17.03%	-
	2020 1-9	2019	2018	2017
	520,478.56	475,767.70	515,631.42	235,708.35
	58.49%	-7.73%	118.76%	-
	32.95%	23.80%	16.29%	42.96%

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	2017	2018	2019	
2019	2020	9	36,043.68	56,066.23
			2019	2020 1-9

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2017	2020	9	7,363.51	5,455.11
6,512.46	3,111.69			

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2020 9 905.17 368.21

972.94 2,369.04 0.21% 0.09% 0.16%

0.30%

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	2020-9-30		2019-12-31		2018-12-31		2017-12-31	
		%		%		%		%
	135,552.90	36.77	112,997.26	45.13	81,815.09	38.61	48,496.38	24.63
	101,371.94	27.50	78,665.19	31.42	55,778.93	26.32	74,458.76	37.82
	130,611.07	35.43	58,331.12	23.30	73,978.03	34.91	73,685.87	37.42
	1,132.47	0.31	368.59	0.15	325.42	0.15	258.53	0.13
	368,668.38	100.00	250,362.16	100.00	211,897.47	100.00	196,899.55	100.00

2017 2020 9 196,899.55

211,897.47 250,362.16 368,668.38

45.71% 50.96% 41.79% 46.94%

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	2020-9-30		2019-12-31		2018-12-31		2017-12-31	
	1,347.88	0.25%	122.60	0.03%	419.32	0.11%	318.73	0.09%
	2,258.84	0.42%	-	-	-	-	-	-
	19,307.30	3.60%	22,107.30	4.91%	10,252.02	2.61%	2,540.35	0.73%
	263,150.02	49.10%	194,986.02	43.33%	149,656.16	38.16%	116,210.01	33.18%
	12,218.16	2.28%	15,060.12	3.35%	14,809.97	3.78%	10,948.31	3.13%
	36,546.96	6.82%	31,100.18	6.91%	38,384.68	9.79%	45,417.78	12.97%
	2,425.13	0.45%	9,561.19	2.12%	3,010.44	0.77%	-	-
	191,456.34	35.72%	171,675.84	38.15%	171,675.84	43.77%	171,675.84	49.02%
	2,285.44	0.43%	1,765.04	0.39%	1,605.48	0.41%	210.97	0.06%
	2,970.39	0.55%	2,838.90	0.63%	1,511.50	0.39%	2,290.78	0.65%
	1,979.15	0.37%	765.90	0.17%	884.09	0.23%	613.91	0.18%
	535,945.61	100.00%	449,983.08	100.00%	392,209.49	100.00%	350,226.68	100.00%

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2,540.35 10,252.02 22,107.30 19,307.30

0.73% 2.61% 4.91% 3.60% 2017 2018

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2020-9-30

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2018-12-31

2017-12-31

		-	174.60	-	-	3.15	177.75
2019	12 31	52,945.04	186,996.72	1,635.27	1,835.13	5,606.69	249,018.84
		8,711.31	78,903.35	102.04	497.05	1,306.62	89,520.36
		51.89	296.28	0.28	2.84	98.65	449.94
2020	9 30	61,604.45	265,603.78	1,737.03	2,329.34	6,814.66	338,089.27

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10,948.31

14,809.97

15,060.12

12,218.16

3.13% 3.78%

3.35% 2.28%

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	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	70,038.01	58,724.85	56,489.16	56,414.74

	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	10,011.47	9,378.93	9,378.93	9,587.95
	47,407.67	45,156.20	45,156.20	45,156.20
	9,654.31	1,790.33	4.72	4.72
	2,964.56	2,399.39	1,949.32	1,665.87
	30,851.72	24,985.33	18,104.48	10,996.96
	1,134.06	918.80	716.19	505.07
	26,304.17	22,390.18	16,344.85	9,824.08
	1,697.70	249.91	2.08	1.61
	1,715.79	1,426.44	1,041.37	666.20
	2,639.33	2,639.33	-	-
	-	-	-	-
	2,639.33	2,639.33	-	-
	-	-	-	-
	-	-	-	-
	36,546.96	31,100.18	38,384.68	45,417.78
	8,877.41	8,460.13	8,662.74	9,082.89
	18,464.18	20,126.69	28,811.35	35,332.12
	7,956.61	1,540.42	2.63	3.11
	1,248.76	972.94	907.95	999.67

45,417.78 38,384.68

31,100.18 36,546.96 12.97% 9.79%
6.91% 6.82%

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2018 2019 2020 9 3,010.44
9,561.19 2,425.13 0.77% 2.12%
0.45% 2018 2019 400G 2020
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	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	191,456.34	171,675.84	171,675.84	171,675.84

	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	535,945.61	449,983.08	392,209.49	350,226.68
	35.72%	38.15%	43.77%	49.02%

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171,675.84

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19,780.50

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2,290.78

1,511.50

2,838.90

2,970.39

0.65% 0.39%

0.63% 0.55%

	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	2,219.45	1,057.11	1,082.23	942.87
	1,941.51	1,033.06	1,080.27	902.02

	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	262.10	19.75	-	-
	15.85	4.30	1.95	40.85
	14,334.70	10,752.12	10,217.19	6,728.30
	-	-	25.07	25.07
	-	498.06	-	-
	245.84	75.98	-	-
	2,639.33	2,639.33	-	-
	-	-	-	-
	19,439.33	15,022.60	11,324.49	7,696.24

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	2020-9-30		2019-12-31		2018-12-31		2017-12-31	
	98,997.16	17.91%	65,228.64	18.30%	38,980.16	11.80%	43,443.64	11.42%
	68,959.43	12.48%	17,199.21	4.82%	14,034.64	4.25%	27,035.88	7.11%
	134,962.66	24.42%	125,947.39	35.33%	80,158.90	24.26%	140,361.80	36.90%
	-	-	3,065.21	0.86%	1,690.56	0.51%	2,204.77	0.58%
	7,439.18	1.35%	-	-	-	-	-	-
	13,753.13	2.49%	11,408.54	3.20%	7,679.84	2.32%	7,425.48	1.95%
	1,240.98	0.22%	1,161.21	0.33%	606.21	0.18%	3,387.47	0.89%
	44,672.47	8.08%	30,511.55	8.56%	37,357.94	11.31%	36,120.92	9.50%
	33,962.25	6.14%	28,086.38	7.88%	106,243.92	32.16%	34,618.73	9.10%
	3,274.27	0.59%	-	-	-	-	113.00	0.03%
	407,261.52	73.69%	282,608.13	79.27%	286,752.17	86.80%	294,711.69	77.47%
	106,105.34	19.20%	46,550.00	13.06%	26,950.61	8.16%	24,127.64	6.34%
	2,850.00	0.52%	2,850.00	0.80%	3,894.58	1.18%	3,043.22	0.80%
	6,838.08	0.01	6,263.28	1.76%	4,447.10	1.35%	3,994.10	1.05%
	13,203.71	2.39%	7,293.48	2.05%	6,901.73	2.09%	4,514.02	1.19%
	16,432.40	2.97%	10,930.07	3.07%	1,425.76	0.43%	1,544.13	0.41%
	-	-	-	-	-	-	48,481.64	12.74%
	145,429.54	26.31%	73,886.83	20.73%	43,619.77	13.20%	85,704.75	22.53%

2020 9

55.03%

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	2020-9-30		2019-12-31		2018-12-31		2017-12-31	
	98,997.16	24.31%	65,228.64	23.08%	38,980.16	13.59%	43,443.64	14.74%
	68,959.43	16.93%	17,199.21	6.09%	14,034.64	4.89%	27,035.88	9.17%

1-1-214

	2020-9-30		2019-12-31		2018-12-31		2017-12-31	
	134,962.66	33.14%	125,947.39	44.57%	80,158.90	27.95%	140,361.80	47.63%
	-	-	3,065.21	1.08%	1,690.56	0.59%	2,204.77	0.75%
	7,439.18	1.83%	-		-		-	
	13,753.13	3.38%	11,408.54	4.04%	7,679.84	2.68%	7,425.48	2.52%
	1,240.98	0.30%	1,161.21	0.41%	606.21	0.21%	3,387.47	1.15%
	44,672.47	10.97%	30,511.55	10.80%	37,357.94	13.03%	36,120.92	12.26%
	33,962.25	8.34%	28,086.38	9.94%	106,243.92	37.05%	34,618.73	11.75%
	3,274.27	0.80%	-		-		113.00	0.04%
	407,261.52	100.00%	282,608.13	100.00%	286,752.17	100.00%	294,711.69	100.00%

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43,443.64 38,980.16

65,228.64 98,997.16 14.74% 13.59%

23.08% 24.31% 2020 9

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27,035.88 14,034.64

17,199.21 68,959.43 9.17% 4.89%

6.09% 16.93%

	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	68,959.43	17,199.21	14,034.64	27,035.88
	68,959.43	17,199.21	14,034.64	27,035.88

2020 9

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140,361.80 80,158.90

125,947.39 134,962.66 47.63%

27.95% 44.57% 33.14%

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2017 2018 2019 2,204.77

1,690.56 3,065.21 0.75% 0.59%

1.08% 2020 9

2018 2017

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2017 2019 " 4 "

2020 9 7,439.18

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	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	13,062.47	11,312.65	7,675.34	7,419.01
-	690.66	95.89	4.50	6.48
	13,753.13	11,408.54	7,679.84	7,425.48

2019 2020 9

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	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	68.96	224.43	248.31	111.02
	686.87	575.11	129.45	3,023.09
	233.95	93.06	34.79	88.51
	4.01	16.25	18.93	19.67
	135.93	146.38	123.86	86.83
	48.94	43.28	14.25	19.57
	50.38	41.12	21.46	23.33
	11.96	21.58	15.15	15.45
	1,240.98	1,161.21	606.21	3,387.47

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2017	2020	9	37.51	336.04
64.40	304.03		0.01%	0.12%
0.07%			0.02%	

2020-9-30

	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	23,016.63	1,915.14	1,518.50	985.85
	44,386.44	30,447.15	37,021.90	36,083.42

2017 2018 2017 2020 9

36,083.42 37,021.90 30,447.15 44,672.47

12.24% 12.91% 10.77% 10.97%

2020

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67.19%

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34,618.73

106,243.92

28,086.38

33,962.25

11.75% 37.05% 9.94% 8.34%

	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	33,962.25	26,950.61	54,846.63	31,656.53
	-	1,135.77	2,199.39	2,962.20
	-	-	49,197.91	-
	33,962.25	28,086.38	106,243.92	34,618.73

2018

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2019

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	2020-9-30	2019-12-31	2018-12-31	2017-12-31



	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	6,838.08	6,263.28	4,447.10	2,936.31
	-	-	-	1,057.79
	6,838.08	6,263.28	4,447.10	3,994.10

24

2017 12 31

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2019 2020 9 7,293.48
13,203.71 9.87% 9.08%

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	2020-9-30	2019-12-31	2018-12-31	2017-12-31
	16,432.40	10,930.07	1,425.76	1,544.13

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2016 2017 2018
1.73
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		43.32%	33.86%	17.67%	31.61%	40.89%
		2.23	2.12	3.27	2.54	1.46
2017						
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	2020 1-9	2019	2018	2017
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	2020	1-9	2019		2018		2017
	520,478.56	940%	475,767.70	-7.73%	515,631.42	118.76%	235,708.35

	456,949.95	8.97%	419,322.68	-6.03%	446,241.84	115.86%	206,730.25
	390,651.87	12.65%	346,777.51	-7.53%	374,996.92	117.33%	172,550.88
	1,193.36	-28.10%	1,659.70	63.00%	1,018.25	57.94%	644.70
	7,385.66	34.68%	5,484.01				

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2017-2020 1-9

	2020 1-9	2019	2018	2017
	523	462	422	153
	61,145.27	47,371.85	388,202.37	-
/	0.09	0.10	0.12	0.14
	-27,668.38	-84,044.62	-109,228.47	-
	33,476.89	-36,672.77	278,973.90	-

2017 7
2017 7-12

2017-2019 2020 1-9

220,799.12 499,773.02 463,100.25 496,577.14

2018 2017 278,973.90

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2017 7-12 2018

100G

388,202.37 2019



	4,013.34	100.00%	10,074.75	100.00%	11,197.86	100.00%	9,428.16	100.00%
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2017-2019 2020 1-9 45.66% 57.20%

49.94% 48.14% 18.09% 15.21% 15.34% 14.73%

36.25% 27.59% 34.72% 37.13%

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	2020	1-9	2019	2018	2017
		25.22%	27.29%	27.21%	26.20%
		17.50%	-	-	-
		25.38%	20.47%	29.39%	35.56%
		24.94%	27.11%	27.27%	26.79%

2017 -2019 2020 1-9 26.79% 27.27%

27.11% 24.94% 2020 1-9

25G 100G

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2017-2019 2020 1-9

26.20% 27.21% 27.29% 25.22%

	2020	1-9	2019	2018	2017
/		0.09	0.10	0.12	0.14
		-4.05%	-13.21%	-16.13%	-
/		0.07	0.07	0.09	0.11
		1.97%	13.30%	17.13%	-
		-2.08%	0.09%	1.00%	-

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2017-2019

2018

			-16.13%		17.13%
2019				-13.47%	
13.30%	2020	1-9			-4.05%
					1.97%

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17.50%

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2017-2020 1-9

	2020	1-9	2019	2018	2017
		23.29%	21.19%	19.82%	20.83%
		24.41%	25.27%	24.58%	25.42%
		38.04%	34.72%	19.51%	24.00%
		28.58%	27.06%	21.31%	23.42%
		25.22%	27.29%	27.21%	26.20%

	2020	1-9	2019	2018	2017
		%		%	
	7,385.66	1.42	5,484.01	1.15	3,202.23
	25,118.74	4.83	27,458.43	5.77	11,660.35
	29,224.40	5.61	36,235.31	7.62	12,930.50
	3,375.93	0.65	1,707.72	0.36	3,712.65
	65,104.73	12.51	70,885.47	14.90	31,505.72
	520,478.56	100.00	475,767.7	100.00	235,708.35

2017-2019 2020 1-9 31,505.72
 70,226.68 70,885.47 65,104.73
 13.37% 13.62% 14.90% 12.51%

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2020 1-9 2019

11,660.35 25,334.74 27,458.43 25,118.74
 4.95% 4.91% 5.77% 4.83%

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	2020	1-9	2019	2018	2017
	17,904.50		13,914.78	12,146.51	4,165.60
	2,968.51		11,709.18	10,177.39	5,542.87
	1,057.03		4,009.13	1,195.06	654.70
	4,594.99		3,449.55	2,287.08	878.80
	1,537.20		1,920.89	3,947.30	1,213.26
	502.52		529.09	464.68	217.94
	123.61		241.38	258.46	109.40
	248.42		148.59	236.54	98.92
	167.09		142.58	91.45	15.40
	120.52		170.13	142.81	33.61
	29,224.40		36,235.31	30,947.28	12,930.50

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2017 7-12

2017 -2019 2020 1-9
 12,930.50 30,947.28 36,235.31 29,224.40
 5.49% 6.00% 7.62% 5.61%

2017 -2019 2020 1-9
 2019 2018

2020 1-9

400G

2020 2019

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	2020 1-9	2019	2018	2017
	5,003.93	5,016.39	5,025.23	1,838.61
	715.24	1,813.23	574.74	306.62
()/	-1,261.79	-1,922.46	753.92	664.61
	-	-	2,136.96	1,136.24
	349.03	427.02	579.98	379.80
	3,375.93	1,707.72	7,921.35	3,712.65

2017 7

2017 7-12

2017 -2019 2020 1-9 3,712.65
 7,921.35 1,707.72 3,375.93 1.58%
 1.54% 0.36% 0.65%

2018 7,921.35

2019

1,707.72 2019 2019

723.28

	2020 1-9	2019	2018	2017
	931.70	3,150.24	580.62	665.68
-	3,915.78	2,332.40	430.08	335.60
	1,520.00	2,000.00	1,664.40	-
-	1,056.40	723.28	231.38	-
	1,020.46	266.35	409.90	609.67

	2020 1-9	2019	2018	2017
	-	5,612.24	506.67	332.39
	1,295.22	1,364.81	158.16	275.80
	-	-218.90	-	-
	-	-	-	451.65
	-	-	-	39.25
	1,295.22	6,758.15	664.82	1,099.09

1,099.09 664.82 6,758.15

1,295.22 2019 2017 2018

5,250.94

2020 1-9 0

2017 2018 -10,924.41 1,420.69

2019 2020 1-9 2017

10,924.41 2017 2 18

" " "

" " 3 " " 6

"

	2020 1-9	2019	2018	2017
	5.83	-13.17	-10.75	-176.73

	2020	1-9	2019	2018	2017
	8,444.34		8,472.27	3,316.38	1,610.95
	1,295.22		1,364.81	158.16	275.80
	-		-	-	-129.45
	-		-	-	18.80
	-		-	-	451.65
	-163.10		30.15	1,316.30	2.29
	-		-	-716.26	-12,060.65
	1,517.82		1,455.49	755.45	308.00
	107.95		-	-	-
	7,956.51		8,398.57	3,308.38	

2015 7

(

GR201532000451) 3

" 15%

" 2015 15%

2018 10

(

GR201832000050) 3

2018 2020

15%

2019 11 28

GR201937000260 3

15%

2019 2021 15%

2015 5 8

[2015 282] 2015 8 31

[2015 133]

®

100G/400G

	2020 1-9	2019	2018	2017
	620,731.45	520,609.85	628,870.16	258,547.39
	634,366.56	463,664.08	562,868.80	254,311.68
	-13,635.11	56,945.77	66,001.35	4,235.71
	360,793.36	334,961.53	15,670.68	50,342.82
	420,637.94	528,898.55	82,978.50	65,077.83
	-59,844.58	-193,937.01	-67,307.81	-14,735.01
	218,571.85	308,875.15	190,321.30	176,580.76
	132,804.05	153,160.32	176,623.41	78,518.35
	85,767.80	155,714.83	13,697.89	98,062.41
	-1,743.61	777.50	1,479.86	-672.51
	10,544.49	19,501.09	13,871.28	86,890.61

2017	2019	2020	1-9		
4,235.71	66,001.35	56,945.77	-13,635.11		
16,150.54	62,311.60	51,348.72	60,428.67	2017	
				2017	

	100%	2017	7		
				2017	2020 9
2017					72,758.90
				-33,478.83	
					-12,185.16
	-10,924.41				-4,155.67
2018			2018	2019	
			2020	1-9	
	-13,635.11				
					2019
	163,364.83				
					761,768.39
	1,097,592.82				
	1				
		2020	9	30	

		/		
1				5.66%
2				20%

		/		
3				82.79 %
4		Bo Lu		3.10%
5				3%
6			AI AI	1.47%
7			IC	2.97%

2

1-6

3

2017 2019

2020 1-9

42,077.83 60,773.50 75,930.64 69,326.44

2017 2020 1-9

176,580.76

190,321.30 308,875.15 218,571.85

		894,349.06		2017	
		2019			
2018	4				
15.56		400G		100G	5G
			2018	12	
2019	3				
				2019	4 2
34,378,038				2019	4 10
	5			A	34,378,038
	45.26	/			155,595.00
3,336.54					152,258.46
					78,518.35
					176,623.41
		153,160.32	132,804.05		

				2017	2018	2019
2020	1-9					
42,077.83		60,773.50	75,930.64	69,326.44		

"

"

COB

/

2020 9 30

1,256

1

" " " " " " 2

"

2

2020 9 30

50

1	800G		
2			
3	100G/200G/400G		

1

1

2

2

3

2020 9 30

91,930.30

12.11%

1			30,000.00	29,500.00	2019/05/14-2022/05/13
2			100,000.00	15,000.00	2019/12/24-2020/12/24
3			80,000.00	3,000.00	2020/06/24-2022/06/24
4			80,000.00	20,000.00	2020/09/24-2022/09/23
5			20,000	1,000	2020/09/22-2021/09/22
6			60,000.00	5,000	2019/06/04-2022/11/29

2020 9 30

1

2020 9 30

2

1

2

50%

40%

1-1-245

		2017	2020	9	
	235,708.35	515,631.42	475,767.70		520,478.56

100G 400G

800G

2020

300,000.00

1		95,580.91	94,451.90
2		71,212.10	64,448.00
3		58,786.90	51,333.40
4		89,766.70	89,766.70
		315,346.61	300,000.00

" " " " 100%

8

100%

1,500
600

200

1

100%

1

2

			2010 04 15
	22,641.722222		
	9132059455383489XX		
	168		

		2020 9 30	2019 12 31
		1,421.55	1,441.55
		1,254.78	23.07
		2020 1-9	2019
		38.08	57.26
		-32.46	-40.28

()

(2020) 3197

3

100%

	88 H 2
	822,800
	2012 11 6
	2012 11 6 2062 11 5
	91320594056636040L

B.

2017 0000080	168	/	90,318.76	58,251.38	2060 05 30

C.

95%

5%

D.

6

2019 2020 1-9

2019 2020 1-9

7

8

2020 11 9

2020 12

9

2020 9 30 37,940.93

2020 1626 38,092.39

3.80

3.80

2

1

,

3 2021-2023

/	
800G	SFP-DD/OSFP 100G PAM4 7nm 800GQ
(CPO)	(>=8)
	400G/800G
	COSA 400km 800G 80km 400G
	850nm/25G/50G VCSEL (DFB) (EML) 50GPAM5
	2D 3D

305

/		(/)	()
1	(Tunable laser C band)	1	34.50
2	(Tunable laser O band)	1	34.50
3		2	138.00
4		2	138.00
5	A	1	6.90
6	B	6	124.20
7	A	2	13.80
8	B	6	20.70
9	C	2	6.00
10	Zygo Surface Profiler	1	103.50
11	IR Camera	2	48.30

12	Scanning Electron Microscope (SEM)	1	138.00
13		1	13.80
14		1	6.90
15	EDFA	1	4.10
16	SOA	2	5.50
17	4x Benchtop LiNbO3 Modulator w/ Lasers	1	41.40
18	SOI	1	414.00
19		3	176.00
20		1	69.00
21	100G Sampling Scope	1	345.00
22	Optical Reflectometer	1	103.50
23	64G Bud BERT	1	552.00
24	110GHz Component Analyzer	1	690.00
25	110GHz Realtime Scope	1	897.00
26	120Gsa/s arbitrary waveformgenerator (AWG)	1	552.00
27	Flip-chip Bonder	1	897.00
28		4	124.20
29		6	124.20
30	A	6	124.20
31	B	4	68.00
32	ASE	6	20.70
33		6	227.70
34	ATS	6	165.60
35	BI	2	110.40
36		4	1,380.00
37	BGA	2	165.60
38		1	234.60
39	MATLAB	1	207.00
40	VPI	1	41.40
41		1	552.00
42		1	207.00
43	Photonic Wire Bonds	1	690.00
44		3	103.50
45	800G	4	1,656.00
46	800G ATS	8	2,208.00
47	LCA	1	1,104.00
48	BERT-PPG	2	690.00
49	DCA N1000A	2	483.00

58		5	10.00
59	+	5	30.00
60	()	1	20.00
61		2	10.00
62		5	25.00
63		2	100.00
64		1	20.00

28		1	42.00
29		2	4.00
30		1	3,000.00
		95	5,000.90

450

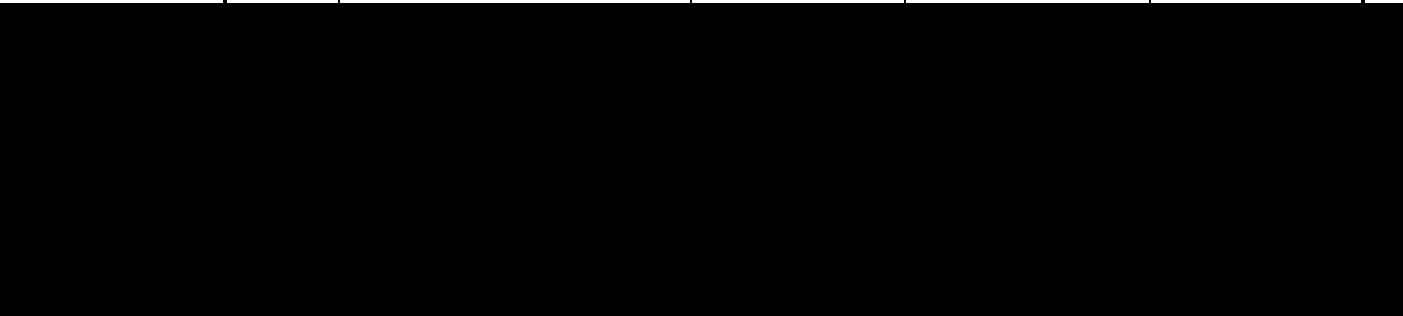
150

300

2

57,580.91

--	--	--	--	--



4

(CPO)

800G

2008

10G SFP+ 25G SFP28 40G QSFP+ 100G
QSFP28 100G Single Lambda 400G OSFP 400G QSFP-DD CFP2 DCO/OSFP
DCO/QSFP-DD DCO

1-1-257

AT&T

5

6

2020 579

2020 614

20203205000100000924

002439400

10G 25G 40G 100G
200G 400G 800G

100G 400G
800G 400G
2023-2024 800G

5G

400G 800G

50G 100G 200G

3 (2021-2023)

4

2

71,212.10

1		32,810.70	46.07%
2		29,539.20	41.48%
3		2,098.10	2.95%
4		1,289.00	1.81%
5		5,475.10	7.69%
		71,212.10	100%

3

1

28% 16% 6% 50%
13%

Finisar Oclaro



50%

400G

ADC/DSP

400G

2-3

400G

800G

2

"

"

400G

800G

4

1

"

" " " +"

" " "

" "

" " " "

" 5G+ " 512 " 5G

5G

" 5G+ "

2

3

"

"

ISO9001:2015

TL9000 H6.0/R5.5

ISO14001:2015

ISO45001:2018

5

1

50G 100G 200G 400G 800G

10

1-3

2

4

653, 800. 14

1-1-262

2

= +
= + +
= + +

537,438.30

3

95,688.10

6

2020 580

2020 613

20203205000100000923

002437000

1

400G

50G 100G 200G

100G 400G

400G

2 (2021-2022

)

3

2

1 2

3

1,011,070.10

2

= +

= + +

= + +

844,001.40

3

136,813.51

6

2020-340760-39-03-035249

2020 49

1

89,766.70

2

1

2020 9 30

41.83%

73.69%

2

2017	2018	2019	2020	1-9
235,708.35	515,631.42	475,767.70	520,478.56	





Анн

()

([2017]741) (" "

" ") 13.54 / () (

" "

()

				279,999.98					279,999.98
--	--	--	--	------------	--	--	--	--	------------

()

49,000.00						49,052.85					
						2017 40,530.97					
						2018 8,521.88					
						2019 -					
						2020 1-6 -					
						2020 6 30				()	
1			19,400.00	19,400.00	19,418.09	19,400.00	19,400.00	19,418.09	18.09	2019 9	
2			25,600.00	25,600.00	25,634.76	25,600.00	25,600.00	25,634.76	34.76	2019 10	
3			4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	-		
			49,000.00	49,000.00	49,052.85	49,000.00	49,000.00	49,052.85	52.85		

()

						155,595.00					107,665.59	
						40,000.00	2017					
						25.71%	2018					
							2019					86,311.36
							2020	1	6			21,354.23
						2020 6 30						
										()	
1	400G	400G	35,082.00	35,082.00	35,299.96	35,082.00	35,082.00	35,299.96	217.96	2021	4	
2			83,539.70	43,539.70	29,035.17	83,539.70	43,539.70	29,035.17	(14,504.53)	2021	4	
3			16,973.30	16,973.30	16,997.90	16,973.30	16,973.30	16,997.90	24.60			
4			20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	-			
5	400G	400G	-	40,000.00	6,332.56	-	40,000.00	6,332.56	(33,667.44)	2022	1	
			155,595.00	155,595.00	107,665.59	155,595.00	155,595.00	107,665.59	(47,929.41)			

1

2017 10 27

34,101.82 (2017 10 20)

() 2017

10 27

2017 10 20

(XYZH/2017JNA20209)

2

2019 4 22

38,083.48 (2019 4 22)

(

) 2019 4 22

2019 4 22

(

(2019) 2148)

2019 4 22

100,000

12

2019 5 15

2018

2020 4 17

65,000

3

2020 4 22

75,000

12

2020 6 9

2019

2017 9 6 (2017

) 2020 6 30

489,850

486,250 2020 6 30

3,600

2020 1 22

"

"

40,000.00

" 400G

"

50

400G

		2020 6						2020 6	
		30		2020 1-6	2019	2018	2017	30	
1	100%		66,800.00			66,257.03	58,922.15	148,796.51	

		2020 6						2020 6	
		30		2020 1-6	2019	2018	2017	30	
1		83.6%	20,181.50	7,721.87	15,060.76	14,550.36	13,809.34	51,142.33	
2		80.2%	26,549.50	11,701.05	22,870.71	22,885.22	22,769.68	80,226.66	
3									

2020 6

1-1-276

()
 ([2017]741) 13.54 / 27
 100% 2017 7 3

[2017] 07030003
 913205946739170837
 100%

	2020 6 30	2019 12 31	2018 12 31	2017 12 31
	9,215,335,425.35	7,798,789,771.95	5,319,281,526.93	4,856,979,957.14
	4,084,996,341.74	3,092,864,080.71	2,743,786,346.04	2,955,585,986.90
	5,130,339,083.61	4,705,925,691.24	2,575,495,180.89	1,901,393,970.24

"

95%

2

(2018) 1867 () 2017 2016
2016
236,173,335.63 2016
136.52%

(2018) 1867 () 2017 2016
2017
589,221,524.00 2017
272.79%

(2019) 2174 () 2018 2017 2016
2018
662,570,254.41 2018
237.48%

(2020) 3069 " 2020 6 30

[2007]500
2020 6 30 "

第九节 声明

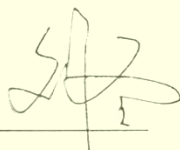
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本公司及全体董事、监事、高级管理人员承诺本募集说明书内容真实、准确、完整，不存在虚假记载、误导性陈述或重大遗漏，按照诚信原则履行承诺，并承担相应的法律责任。

全体董事签字：



王伟修

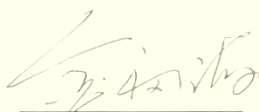


刘 圣



王晓东

刘澄伟

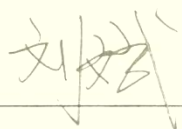


金福海

赵贵宾

夏朝阳

陈大同



刘 斌

中际旭创股份有限公司
2021年1月29日

第九节 声明

一、公司及全体董事、监事、高级管理人员声明

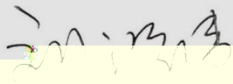
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全体董事签字：

王伟修

刘 圣

王晓东







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全体董事签字：

王伟修

刘 圣

王晓东

刘澄伟

赵贵宾

陈大同

金福海

夏朝阳

刘 斌

中际旭创股份有限公司

2021年 1 月 19 日



第九节 声明

一、公司及全体董事、监事、高级管理人员声明

本公司及全体董事、监事、高级管理人员保证本声明的内容真实、准确、完整，不存在虚假记载、误导性陈述或重大遗漏，按照法律法规和相关证券监管规则履行承诺，并承担相应的法律责任。

全体董事签字：

			
刘澄伟	赵贵宾	陈大同	刘 斌
			
金福海	夏朝阳		

中际旭创股份有限公司

2023年11月29日

第九节 声明

一、公司及全体董事、监事、高级管理人员声明

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全体董事签字：

王伟修

刘 圣

王晓东

刘澄伟

赵贵宾

陈大同

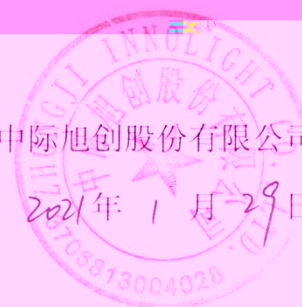
金福海

夏朝阳

刘 斌

中际旭创股份有限公司

2021年1月29日







一、公司及全体董事、监事、高级管理人员声明

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全体高级管理人员签字：


刘 圣
王晓东
王晓丽
Osa Chou-Shung Mok
(莫兆雄)
王 军

中际旭创股份有限公司

2024年1月29日



一、公司及全体董事、监事、高级管理人员声明

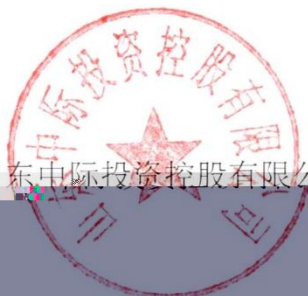
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完整，不存在虚假记载、误导性陈述或者重大遗漏，并对其真实性、准确性、完整性承担个别和连带的法律责任。

二、公司控股股东、实际控制人声明

本公司或本人承诺本募集说明书内容真实、准确、完整，不存在虚假记载、误导性陈述或重大遗漏，按照诚信原则履行承诺，并承担相应的法律责任。

公司控股股东（盖章）：山东中际投资控股有限公司



三、保荐机构（主承销商）声明

（一）保荐机构（主承销商）声明

本公司已对募集说明书进行了核查，确认本募集说明书内容真实、准确、完整，不存在虚假记载、误导性陈述或重大遗漏，并对其真实性、准确性和完整性承担相应的法律责任。



尉欣



张贵阳

项目协办人签字：



张跃骞

法定代表人签字：



贺青

国泰君安证券股份有限公司

2021年1月29日

(二) 保荐机构（主承销商）董事、监事和高级管理人员

1-1-289





关于中际旭创股份有限公司
公开发行可转换公司债券募集说明书的
会计师事务所声明

本所及签字注册会计师已阅读《中际旭创股份有限公司公开发行可转换公司债券募集说明书》全文，并就募集说明书中相关内容

(以下简称“公告”)出具的上述审计报告的内容无不相

本所及签字注册会计师对中际旭创股份有限公司在募集说明书中

披露的财务数据进行了核对，并与公司账簿记录、原始凭证、

会计凭证、账簿记录、纳税申报表、审计报告、资产评估

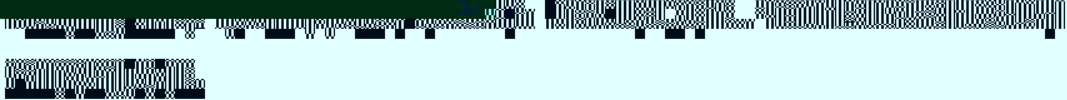
报告、法律意见书、保荐机构出具的发行保荐书、发行保荐

工作报告、发行承销方案、募集资金三方监管协议、募集说

明书摘要、发行公告、发行认购公告、发行申购公告、发

审计机构声明

本所及签字注册会计师已阅读募集说明书及其摘要，确认募集说明书及其摘要与本所出具的报告不存在矛盾。本所及签字注册会计师对发行人在募集说明书及其摘要中引用的财务报告的内容无异议，确认募集说明书不致因所引用内容而




(蔡先铃)


(燕进)

会计师事务所负责人（签字）：


(叶韶杰)



信永中和会计师事务所(特殊普通合伙)（签章）


2021年11月29日


1-1-2 资信评级机构的声明

中债资信评级机构（以下简称“中债资信”）接受发行人委托，为发行人发行的“2020年公开发行公司债券”提供信用评级服务。中债资信在信用评级过程中，严格按照《信用评级业务规范》及《信用评级操作细则》等相关法律法规、行业规范及中债信用的内部评级标准，对发行人的财务状况、经营情况、信用记录、行业前景等方面进行了全面、客观、公正的评估。中债信用的信用评级结果仅供参考，不作为任何投资或决策的依据。中债资信对评级结果的准确性、完整性、及时性负责，并承担相应的法律责任。

中债资信
信用评级机构

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中债资信
信用评级机构



2021年1月29日

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3、严格执行公司的分红政策，保障公司股东利益回报

公司将严格按照《上市公司监管指引 2 号—上市公司募集资金管理和使用的监管要求》、《深圳证券交易所创业板股票上市规则》、《深圳证券交易所创业板上市公司规范运作指引》及公司《募集资金使用管理制度》的有关规定，规范募

