

300308



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
		<b>315,346.61</b>	<b>300,000.00</b>

A

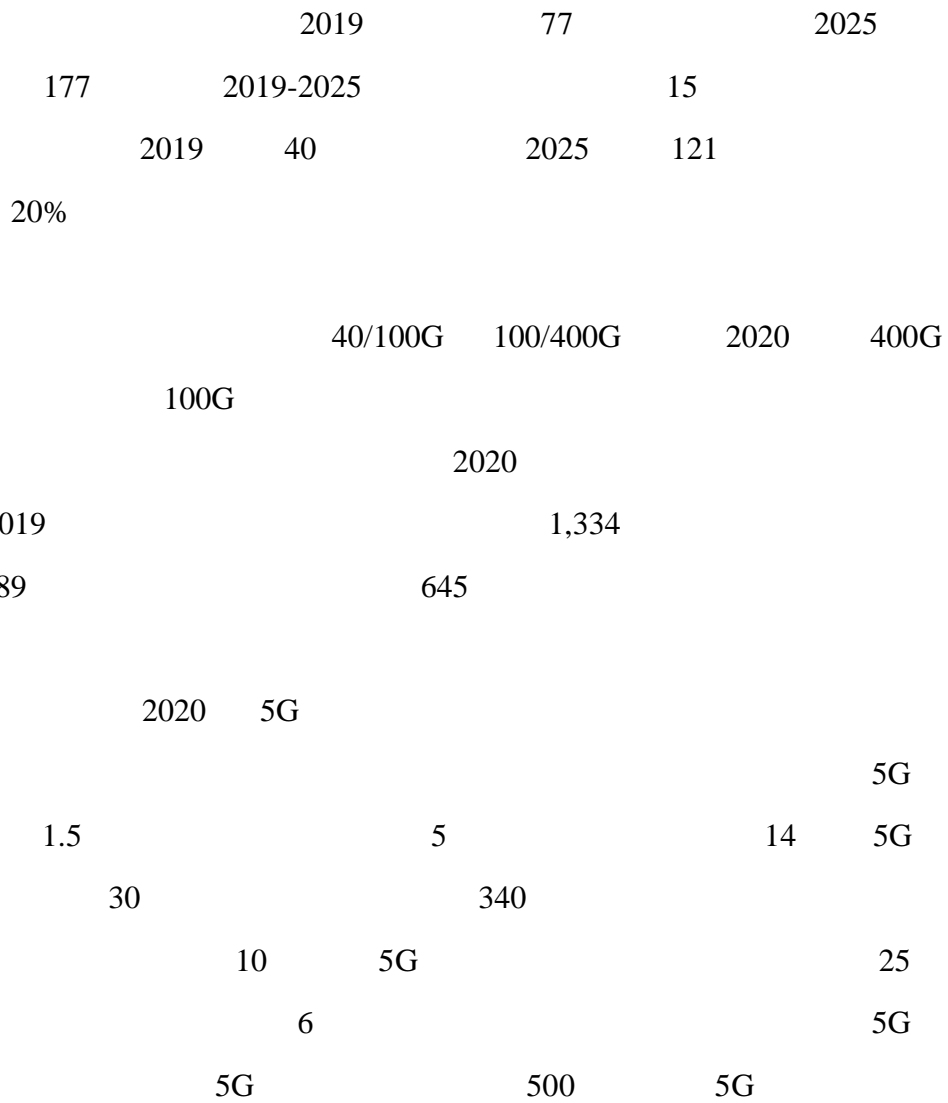
100 400G

5G

1

5G

Yole Développement



2

2020

1

	2012	
	2013	
	2013	2015 2020
	2013	2015 20 Mbps

100Mbps

	2017	2020 5G 70% 85% 98% 12Mbps
	2017	2016-2018 4 1.2 / 9,022 92
2018-2022	2017	25Gb/s DFB 200G 400G
	2018	
5G+ 512	2019	5G 5G 5G+
2020 3 4	2020	5G
	2020	

100%

8

100%

1,500  
600

200

1

100%

1

2

			2010 04 15
	22,641.722222		
	9132059455383489XX		
	168		

--	--

**3**

2009 12 9

		3
		3
		3
		3
		3

1		9,000	90%	4,500	45%
2		1,000	10%	500	5%
		<b>10,000</b>	<b>100%</b>	<b>5,000</b>	<b>50%</b>

2010 0070

2010 4 9

5,000

2010 7 12

2010 7 16

2010 11 28

2010 12 28 05940044 [2010]  
12280001

2010 12 27  
1. 5,000  
10,000 2.

2011 0007 2011 1 12  
10,000 100%  
2011 08 04 05940070 [2011]  
08010003 5,000  
10,000

1		9,000	90%	9,000	90%
2		1,000	10%	1,000	10%
		10,000	100%	10,000	100%

2013 2 28  
1.  
2.

2013 3 1  
1.

2.

2013 3 19  
03180011

05940070

[2013]

2012 12 20

1.

79

168 2.

2012 12 31  
12260003

05940070

[2012]

79

168

2014 8 21

1,000

10%

1,000

2015 3 17

1.

2.

1.

2.

[2015]03

2015 5 4 05940075 [2015] 04240020

2015 4 1 1. 10%

1,000

968.15 2. 100%

3. 4.

2015 4 14 [2015]13

10%

10% 2014 12

31 968.15

2015 5 19 [2015]12

10%

10% 961.74

2015 7 30 [2015]25

968.15 100%

2015 8 3 1. 10%

1,000

968.15

2.

100%

3.

4.

10%

9,681,500.00

2015 8 31

05940104

[2015] 08240002

2016 11 21

1.

2.

2016 12 4

05940341

[2016] 1300017

2018 5 28

1.

“

”

“

2.

2018 6 13  
[2018] 06050006

05940326

⑪

2020 4 7

1.

10,000

22,641.722222

12,641.722222

2020 03 13

2.

2020 4 24  
[2020] 04210080

05940087

⑫

2020 8 3

⑬

2020 9 30

1		22,641.722222	100%
		22,641.722222	100%

5

100%

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

1		597,149.51	72.58%
2		225,650.49	27.42%
		<b>822,800.00</b>	<b>100%</b>

6

7

A.

2010 00146		43620		90,318.76		2060 05 30

B.

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

C.

95%

5%

D.

8

2020 11 9

20

2020 9 30

37940.93

3.80

3.80

2

1

3 2021-2023

2

57,580.91

1		21,860.00	37.96%
2		32,967.21	57.25%
3		1,624.70	2.82%
4		1,129.00	1.96%
		<b>57,580.91</b>	<b>100%</b>

3

5G

IC

4

(CPO)

800G

2008

1

5G

10G 25G 40G 100G

200G 400G 800G

100G 400G

800G 400G

2023-2024 800G

5G

400G 800G

50G 100G 200G

3 (2021-2023 )

4

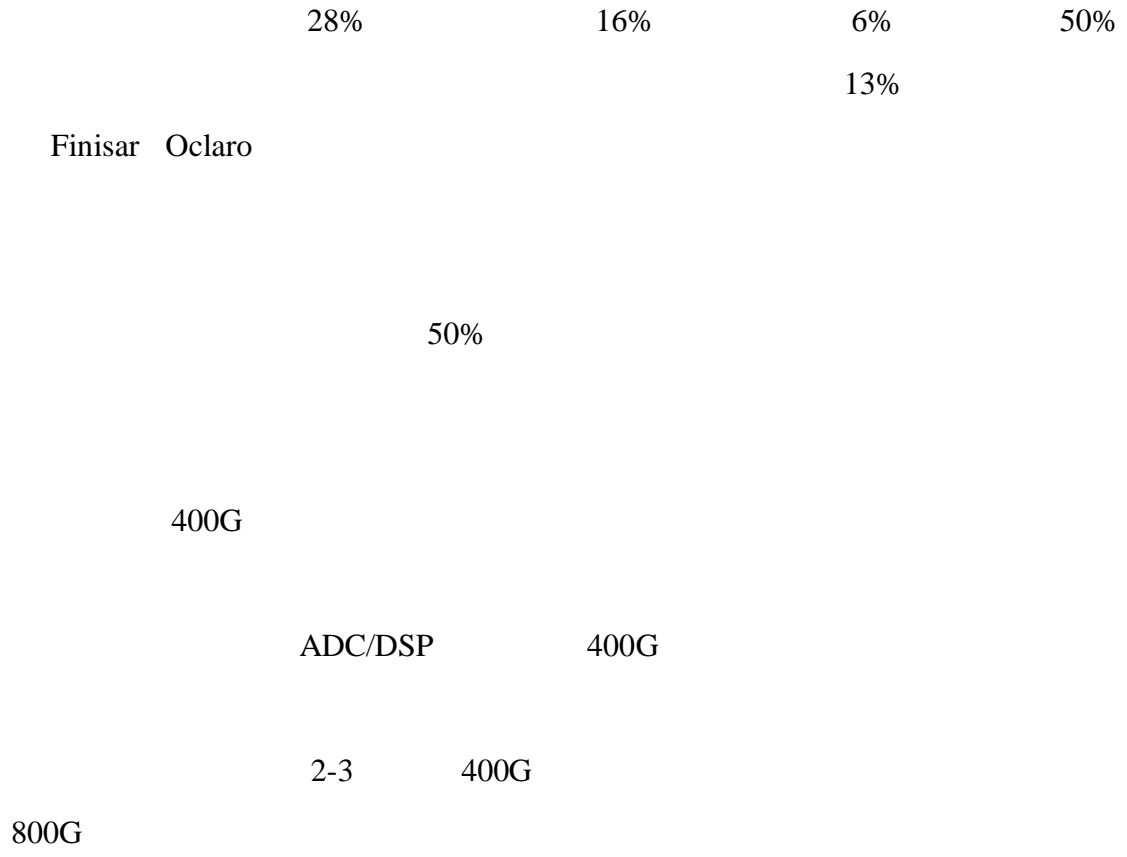
2

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%
		<b>71,212.10</b>	<b>100%</b>

3

1



2

400G

800G

4

1

+

5G+

512

5G

5G

“5G+ ”

2



2020 580

2020 613

20203205000100000923

002437000

1

400G

50G 100G 200G

100G 400G

400G

2 (2021-2022

)

3

2

58,786.90

1		49,449.40	84.12%
2		1,884.00	3.20%
3		2,053.30	3.49%
4		5,400.20	9.19%
		<b>58,786.90</b>	<b>100%</b>

3

4

5

110

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



2020 11 13