

000818

2020-013

2020 18

2020 1 22

2020 18

1.

2019 12 2 2020 1 23

11.21%

885756

24.81%

157.01%

2017

2018

5.03

2.93

1.17

0.93

2019

GPU/FPGA

5G



44% 3 5
2019 1-11

2019

3.17

1.81

1.36

2018 2019

2017-2019

			2020	1	16
		2019			37.84
		3.17			1.81
	57.10%	55%			1.36
42.90%		55%			
		2018	4		
		2019	5		
	GPU/FPGA		5G		
2017					
2.		10.67%	2020	1	6
	3				
			4,000		10.67%
	25.77%				

1
2013 9 26

2020

4000 2019 12 27

2020 6

2

2

3

3

3

3

3

2

1



2

10.67%

3 2020 1 5

20%

4

16.99%

16.99%

5

40%

--

1

FPGA

2

GPU

2009

2014

SG69XX0

2016 3

2018 2 SG69XX1

2018 9

3

1

GPU graphics processing unit

VR

CPU

2 FPGA Field-Programmable Gate Array

ASIC

3

GPU

FPGA

1

2

GPU

2018

12

2019 3

XX

XX

2019 11

5,980

3

2019 9

14

5G

1

1987 3

2 2019 11

44%

3

5G

5G

2019

LTCC-MCM

1

IT

+PC

2 GPU

AMD

2018

25

28

GPU

AI

KPMG

2020

AI

4

GPU

3 FPGA

5G

AI

FPGA

2018

FPGA

63

5G

AI

FPGA

4

2019

12

21

GPU

5,980.00

2019 12 27

FPGA

X A 2,832.50

5 GPU

FPGA

GPU FPGA

GPU Xilinx

Altera FPGA

		2019		2018		
		((
		150.00	0.45%	-	-	
		5,981.00	18.00%	4,788.00	17.71%	
		10,998.00	33.09%	4,721.00	17.47%	
		11,759.00	35.38%	11,145.00	41.23%	
		6,037.00	51.52%	5,316.00	37.60%	
		656.68	5.60%	406.78	2.88%	
		4,323.39	36.90%	2,536.76	17.94%	

2019				6,037	51.52%
	13.56%			656.68	5.60%
	61.43%	2019			4,323.39
36.90%		70.43%	2018	2019	

5G

4.

2019 10

PPT

5.

3
6

2019 10 22 2020 1 22

2019

5%

1
19,830

2019 7 9 8 2

15,516
50,000

168,225.875

2019 7 25
2019-046 2019

8 3

2 2020 2 20 8 20

330,000

0.0478%

2020 1 23

6.

3 2019 10 22 2020 1 22

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7.