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**2017**

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- 1.
- 2.
- 3.

:

- 1.
- 2.
- 3.
- 4.

:

- 1.
- 2.
- 3.

:

- 1.
- 2.
- 3.
- 4.

:

- 1.
- 2.
- 3.



3.MM

:

1. TRX DEMO 5G

2.

:

:

:

Iaas/Paas

:

Iaas/Paas

Iaas/Paas

:

Iaas

Paas Paas

Iaas/Paas

:

Iaas/Paas

Iaas/Paas

:

1. CNN
  2. FPGA
  3. -
- :

:

- 1.
  2. DPDK
  - 3.
  4. HAproxy
- :

:

1. DPD
  - 2.
  3. DPD
- :

1. DPD
2. 5G DPD DPD DPD

:

- 1.
- 2.
3. +



4. +

:

1.

2.

3. +

4. +

:

:

:

1.TOF 3D

2.TOF

3.

:

1. TOF

2.

:

100Gbps DMT

:

:

1. LTE DVB-T2 VR

- 2. MEC VR
- 3. LTE DVB-T2 VR
- :
- 1. LTE DVB-T2 VR
- 2. MEC VR
- 3. LTE DVB-T2 VR

- :
- 1.
- 2.
- 3. TRX
- :
- 1. DEMO
- 2. MM

- :
- 1.GaN
- 2. GaN
- 3.GaN
- 4.GaN

- :
- :
- 1.
- 2.
- 3.

:

---

:

1.IC EMC

2.IC EMC

3.IC EMC

:

:

UI

:

1.

2.

UI

3.

:

：

- 1.
- 2.
- 3.

：

2-3

1

2

3 IMT UV-modng

4

5 MBB

6

IML

7

8

：

IMD/IMT

：

UI

UI

UI

Mifavor UI

UI

Mifavor UI

:

:

5G

698-3600MHZ&20-40GHz

5G

5G

5G

1. 5G 698-3600MHZ&20-40GHz

2.

3.

:

1. 5G

2.

3.

4.

:

1.

2.

:

oled

:

- 1.
- 2.

:

:

+

:

:

:

:

1. CUDA
2. CUDA
3. CUDA

1. CUDA
2. CUDA

:

- 1.
- 2.

:

1. HBASE
2. SQL

1. HBASE SQL92 SQL
2. HBASE SQL



3.

:

1.

2.

3.

:

NFV 5G

MANO

1.NFV 5G

2.

:

1.VNF

MANO

2.

1.VNF

MANO

2.

:

1. CMSOL
2. 15K-3 -5 -8 5dBA

:

FLEXE FLEXE IP

- 1.
2. XILINX IP core  
5G
3. 4\*25G FLEXE 25G PHY FLEXE  
IP+ 5G
4. 4\*100G 2\*200G FLEXE

:

10G 25GPON  
20 1:64

- 1.
- 2.
- 3.

:

50Gbps 2dBm

-29dBm

1. 4
2. 5 4
3. 4

:

- 1.
- 2.

:

DML

10

1. DML
2. 5 DML
- 3.

:

EML SOA

1. EML SOA
2. 5 EML SOA
- 3.

:

10G

30%

10

1. 10G
2. 5 10G
- 3.

:

1. ( 10mm/ 2 mm/ 3mm)
2. 0.2mW
3. 1 -5 dBm
4. 2 -18 dBm
- 5.

- 1.
2. 1-2 UHF-RFID
- 3.

:

1. 2.4G RFID
2. ASK
3. <0.05mW
4. GB29768

- 1.
2. 5
- 3.

:

1. 1
2. 1
3. 1 P2MP 40kbit/s,  
-18 dBm UHF-RFID
4. 2 P2P 10kbit/s
5. 0.1mW

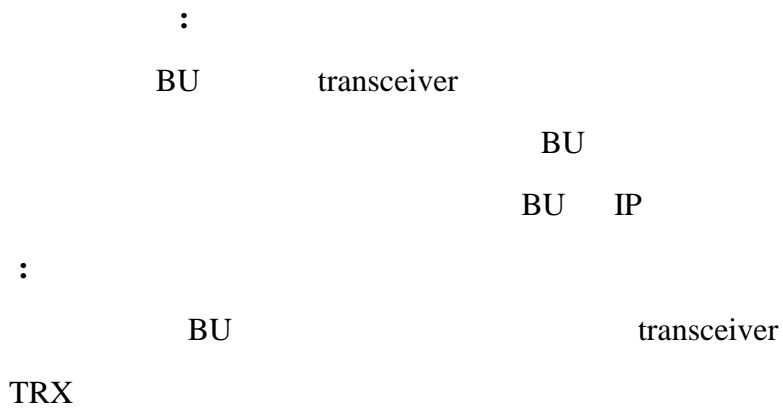
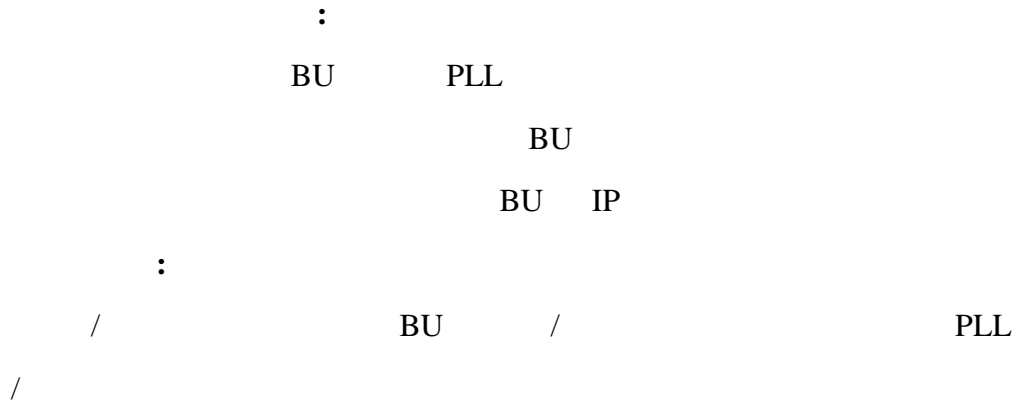
- 1.
2. 5
- 3.

:

SDN/NFV CLOUD CO

:

1. VMOS
- 2.
- 3.
- 4.



:

:

ASIC

:

local tone mapping HDR

8K

:

local tone mapping HDR

8K

ASIC

:

MLC

TLC

FLASH

ONFI 4.0

LDPC

1. ONFI 4.0 LDPC
- 2.
3. BCH
- 4.
- 5.

:

1. matlab C
2. RTL IP
- 3.



4. FPGA

:

:

:

SLAM

IMU/Vision

IMU

SLAM

ORB-SLAM

PTAM-SLAM

LSD-SLAM

RRBD-SLAM

OKVIS-SLAM

SLAM

SLAM

ROS

:

:

:

:

LSTM

CTC

LSTM

DNN-HMM

:

:

AI

:

SLAM

SLAM

SLAM

:

:

30%

:

3D

:

:

AR

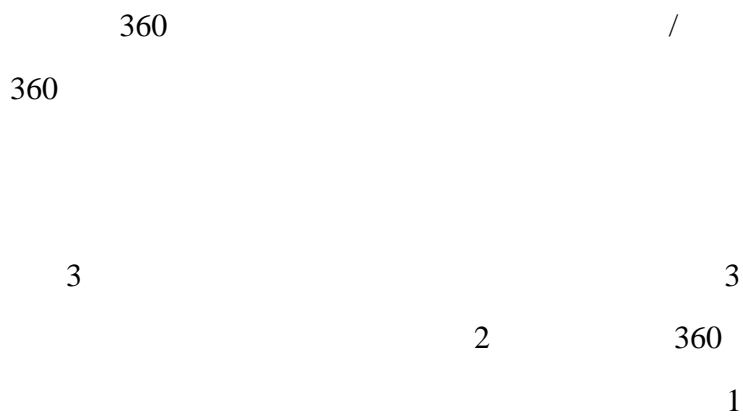
AR

:

- 1.
- 2.VR
- 3.VR
- 4.AR

VR/AR

:



:

1

2

3

:

1.

/

2.

150KVA

3.

/

1.

150KW

2.

:

V2L V2V V2G

150KVA

40KW V2L

V2V

V2G

:

1.

/

2.

1.

2.

SOC/SOH

SOC

SOC

3.

4.

5.

:

DC/DC

48V

VRM

CPU

Intel VR13

48V

1V/120A

92%

VR13

:

1.

7W/m.k    15W/m.k    25W/m.k    35W/m.k,

(@50psi ,80mil >60%,

80mil@50%

20%

2.

2

3.

4. 100

1.

7W/m.k 15W/m.k 25W/m.k 35W/m.k, (80mil  
10% 15% @10psi 45% @30psi 60% @50psi, 80mil@50%  
20% 1000V/mm

2.

3. 3

:

RRU 30mm 1L/min, 10  
1200W 5G

RRU 30mm 1L/min, 10  
1200W 5G

1.

2.

3. RRU 1200W 5G

:

---



:

- 1.
- 2.
- 3.
4. PLC

:

:

- 1.
- 2.
3. 2 3

:

PCB  
3D PCB 3D PCB 3D  
PCB PCB  
3D PCB  
PCB 3D PCB

:

PCB 3D PCB  
PCB 3D PCB

:

PA

3

1. SAE3
- 2.
- 3.
- 4.

:

HA

1. 1
- 2.
- 3.

:

LTE-V

V2X

V2X

1. LTE-V
2. LTE-V
3. LTE-V

:

- 1.
- 2.

:

ADAS

1. MCU
- 2.
- 3.

:

- 1.
- 2.

:

5000 3 50AH 1 1C 165mAh;2

:

1. 4.8V  
1000
- 2.
- 3.

:

1. 50AH 250Wh/Kg
2. >3000
- 3.
4. >90%

:

:

-

-

1. 50AH 600Wh/Kg
2. >1000

:

1. 650mAh/g
2. 15%
3. 3000