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:

NOMA FBMC

LDPC

:

backhaul

:

small

:

3D

3D

Massive MIMO

3D MIMO

:

5G UDN

UDN

UDN

UE Centric Cell

:

:

Massive MIMO

:

UE

:

5G V2V

5G

:

1 2G 3G 4G

2

3

:

1.8~2.6GHz

:

1. UWB

2. UWB 5G

3. UWB 5G

:

1 Pre- 5G

2 Pre- 5G

3

:

1 4G/5G

2

- 1 LPN
- 2 LPN<->LPN&LPN<->Macro
- 3 HetNet/UDN



WLAN

WLAN

VoWLAN

:

50

:

High Dynamic Range HDR

HDR

HDR

HDR

MPEG

HDR

:

H.265/HEVC

H.265/HEVC

HM

:

H.265/HEVC

:

:

(1)

(2)

(3)

(4)

:

D2D 5G

:

:

:

1 :

2

1 :

2

2-5
CMF

:

UI : UI
UI UI
UI

1 Ceph CRUSH Ceph
RBD
2 Ceph RBD I/O
3 2 3 Ceph RBD

1 :
2
3
SLA

:

1

2

3

:

1

Android

2

Android

Android

3

Android

:

1

2

3

:

(1)

(2)

(3)

Web

1 : WiFi

2

3 WiFi iBeacon

1

APT :

:

:

1 TWDM-PON OLT 1596-1603nm
4 10G +MMI

2 1596-1603nm CW

3 4

:

1

2

3

:

1

2

3

:

TWDM-PON ONU 32 10G C-Band

1

2

3 32

:

WDM-PON OLT 32 10G

1 16 /8 L-Band

2 2*16 /4*8

3

:

WDM-PON OLT 32 10G

1 WDM-PON 32 10G APD

2 32 APD

3

:

1 100G

2 100G

:

(ODN) (40Km

1:64)

PON G/E-PON, XG-PON1/10G-EPON, NG-PON2

RFoG

ONU

:

Matlab

100G

NRZ/Duo-Binary/PAM/QPSK/DMT

100G

:

100G

CDR /

:

- 1 100G
- 2 100G
- 3 100G

:

SDN

- 1. SPTN
- 2. Controller
- 3. Controller

:

- 1
- 2
- 3

:

- 1 mac
 - 2 mac
-

3 mac

:

:

PHY

DSP

:

16/24bit sigma delta ADC

:

ADC/DAC IP

ADC

ADC ,4 channel

full rate: 60~68GS/s

3dB Analog BW >20GHz

Resolution 8bit

DAC

DAC ,4 channel,

full rate: 60~68GS/s

3dB Analogue Output Bandwidth >16GHz

Resolution 8bit

ENOB >6.5bit

:

SD-FEC IP

Overhead: <25%

NECG: >11.9db

Error floor: <1E-18

Differential encoder/decoder for DQPSK/D16QAM

:

IP

25G sedes

DFE

:

/ /PA

:

1. ESD/TVS

2. ESD/TVS

3. ESD/TVS

:

IP

2

3

40V

1mA~100mA

4 noise

:

1 deep learning

90%

10%

25 /

2

2

:

OCR

1

2

:

logo

(1)

logo

logo

(2)

:

1 PASCAL VOC ILSVRC ImageNET

2

:

1 TRECVID ObjectVideo I2T Google Image Caption

2

:

, Zoom

:

H265

:

:

:

1. PFC

2. DC/DC

3.

4.

1 380VAC 380VDC 15KW-30KW

2 97%

3 2U-3U 19

210mm

:

DC/DC

PCB

:

AC/DC

:

:

:

SiP

:

-

:

80*80mm

30000rpm

:

:

:

2014

ANC

ANC

5dBA

1.

2.

3.

4.ANC

:

:

SiC

JEFT

MOSFET

:

: