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2019ZTE01

2019ZTE01-01 5G/B5G

2019ZTE01-01-01

:

(1)

(2)

(3)

(4)

:

2019ZTE01-01-02

:

1

2

/

/

:

2019ZTE01-01-03

:

(1)

(2)

:

2019ZTE01-01-04

:

- 1.
- 2.
- 3.
4. / (HW SCMA) 5:

2019ZTE01-01-05

:

PA

52.6G-100G

:

PA

2019ZTE01-01-06 5G

MU-MIMO

:

1. 5G MU-MIMO
2. MU MU
MU-MIMO AMC

:

1. slot UE MU

10%

2.

2019ZTE01-01-07

:

1.

2.

3.

:

1.

2.

3.

2019ZTE01-01-08

LDPC

:

(100-200) LDPC mMTC LDPC
(bit)
LDPC LDPC

mMTC 5G mMTC

:

1. LDPC

2. LDPC

3. 4G

2019ZTE01-01-09

:

5G

5G mMTC uRLLC

:

1.

2. 5G

2019ZTE01-02 5G

2019ZTE01-02-01

:

5G AAU

5G AAU

:

5G AAU

:

- 1.
 2. 5G (ipv4 ipv6)
(mac/ipv4/udp/sip) (sip.Invite)
(wireshark info)
 3. 5G wireshark
 4. ()
(0 ff)
- :
- 5G

2019ZTE01-02-05 DPI

NB-IOT

:

- 1
 - 2
 - 3 NB-IoT
 - 4 DPI
 - 5
- HTTPS

- 1 1
- 2 3
- 3 NB-IoT
- 4

2019ZTE01-02-06

:

:

2019ZTE01-02-07 Sub6G MM GaN

:

Sub6G MM GaN

:

GaN

2019ZTE01-02-08 ET

:

ET

ET DPD

:

1. 100MHz 90%
- 2.ET PA 3.5GHz IBW 100MHz 5W 60% ACPR-45dBc

2019ZTE01-02-09 5G

:

2-5GHz 5g 10W

:

2019ZTE01-02-10

:

:

2019ZTE01-02-11

:

0.3

:

2019ZTE01-02-12 **DPD**

:

DPD

DPD

3dB+

2019ZTE01-02-13

:

DPD

DPD

2019ZTE01-02-14

:

/

:

2019ZTE01-02-15 **AI**

:

AI ;

AI

:

Demo /

&

2019ZTE01-02-16 5G

:

5G B5G/6G

:

5G

ZTE 5G

2019ZTE01-02-17

:

1. /

2.

3.

4. demo

:

1.

2. demo

3. ZTE Communications

4. 1

2019ZTE01-02-18 5G

DPD

:

5G DPD
5G DPD

:

DPD DPD

50%

2019ZTE01-03

2019ZTE01-03-01

:

:

2019ZTE01-03-02

:

:

2019ZTE01-03-03

:

AI FPGA

:

5-10ms

2019ZTE02

2019ZTE02-01

:

1. TEE OS Linux Kernel

2. 3

:

2019ZTE02-02

:

On Device

:

2019

2019ZTE02-03

AR

:

AR/VR

:

AI +AR

2020

2019ZTE02-04 LTEV ITS stack

:

LTEV R14

V2X

LTEV

ITS stack

2.1

2.2

CSAE

2.3

V2I

V2I

V2I/V2V /

V2I

:

ITS stack

2019ZTE03

2019ZTE03-01

:

1.

2.

A

PoW PoS DPoS Paxos PBFT

PBFT

PBFT 3f+1

f 2f+1

f

PBFT

PBFT

Primary Node

O n²

PBFT

Primary

B

1.

2.

go

3.

go

2019ZTE03-02 AI

:

1 AI

AI

AI

AI
2 AI bug
bug
bug
bug

1. 5G LTE BBU
2. linux kernel gcc bug
3. 1

2019ZTE03-03 5G

:

- 1.
2. IBE/HIBE
- 3.
- 4.

2019ZTE04

2019ZTE04-01

:

1

2

3

4

- 1.
- 2.
- 3.

2019ZTE04-02 TCAM

:

- 1.

bit bit

Rectangle Search

Conflict-Free

Rectangle Search

Pruned Tuple Space D2BS

TCAM

IP

C3

SRAM

C3

RCE

100Gbps

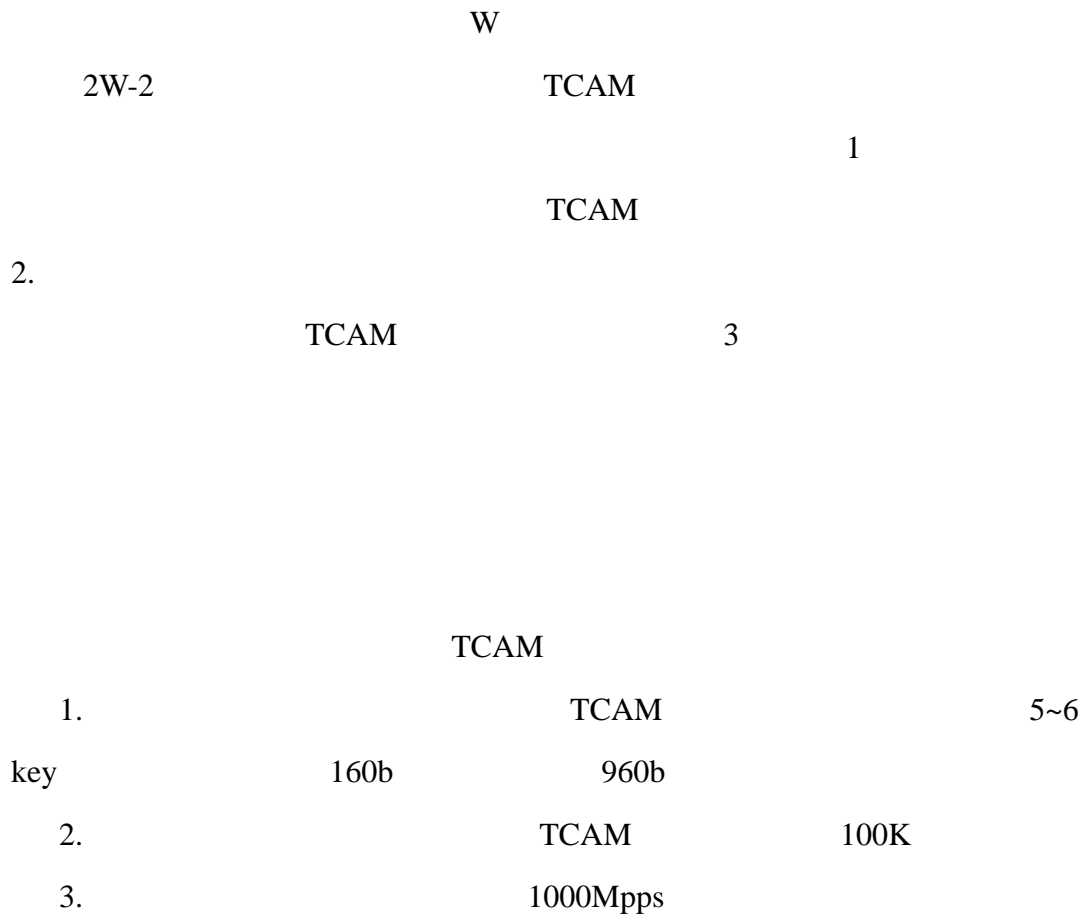
12K

TCAM

SRAM

SRAM

DDR



- 1~2M
- TM
- 1. 1Tbps 1000Mpps
- 2. work conserving non-work conserving
- 3. 200ms TM 64GB
- 4.
- 5.
- 6. wred
- 7. 64Kbps 0.5%
- 8. PQ WFQ CBWFQ FQ WRR DWRR
- 9.
- 10.
- 11.

TM

2M TM

2019ZTE04-04

P4

:

- 1. P4
- 2.

- 1.
- 2.
- 3.

2019ZTE04-05

:

- 1. PLL

- 2. 100 fs
- 3. DCO 65 nm
PLL 65 nm
- 4.PLL si5347
- 5. FPGA SETS

2019ZTE04-06 Wifi

- : Wifi Zigbee

2019ZTE04-07

- : WiFi

2019ZTE04-08 VR

- : VR FOV FOV

19 VR FOV

2019ZTE04-09

:

19

2019ZTE04-10

:

50Gbps 100Gbps 32dB

20km

2019ZTE04-11

PON

:

1. PON
2. PON

2019ZTE04-12

WiFi

:

1. VR/AR/ WiFi
2. 802.11ax DL/UL-OFDMA,DL/UL-MU-MIMO,

3. WIFI

1. WIFI 802.11ax

2.

3.

2019ZTE05

2019ZTE05-01

:

:

8TOPS INT8 1TOPS/W (28nm)

1

1

2019ZTE05-02 56G/112G PAM4 serdes

:

1.

2. initial silicon

3. RX PAM4 CDR

:

1. 56G PAM4 SERDES ZXIC serdes

2. 1

3.

4.

2019ZTE05-03 50G BCDR

:

- 1.
- 2.
- 3.

2019ZTE06-02

:

1. Top5
- 2.
- 3.

2019ZTE06-03

:

- 1.
2. /
- 3.

2019ZTE06-04

:

AR

MEC AR

2019ZTE06-05

:

H.266/VVC

360

JVET

H.266/VVC

H.266/VVC

AVS3

H.266/VVC

AVS3

PEP/EP

1

1

3

2

4

2019ZTE06-06

:

H.266/VVC

360

JVET

H.266/VVC

H.266/VVC

AVS3

H.266/VVC

AVS3

PEP/EP

1

1

3

2

4

2019ZTE06-07

:

H.266/VVC

MPEG

MPEG

H.266/VVC

MPEG

AVS3

PEP/EP

1

1

3

2

4

2019ZTE07

2019ZTE07-01

:

1.

2.

3.

1. 2

2019ZTE08-04

:

:

2019ZTE08-05

:

1.

2.

3.

:

1.

2.

3.

4.

2019ZTE08-06

:

1.

2.

:

1. 5G

2. / 1

2019ZTE08-07 PCB-3D

:

1.PCB-3D

2. PCB 3D

:

GaN HEMT

GaN

AlGaN

AlGaIn/

GaN

2019

1. SiC GaN
2. SiC GaN
3. ;
- 4.

gate lag, power lag

2019ZTE08-12 InP

:

- 1
- 2
- 3

2019ZTE08-13

:

5G

2.6G

2019ZTE08-14

ABS-PC

:

1

2

-

ABS-

PC

1

ABS-PC

2

ABS-PC

3

-

ABS-

PC

2019ZTE08-15 EMMI

:

EMMI

EMMI

2019ZTE08-16

: