



ZTE

# UNFOLDING THE INTELLIGENT FUTURE

KAZNU - ZTE JOINT INNOVATION CENTER  
ALMATY KAZKHSTAN



# Innovation Center Information



Exhibition  
Room



Training  
Center



Innovation and  
R&D Center



Address: 71, Al-Farabi Avenue, Almaty, Kazakhstan

# Innovation Center Information

## ➤ **Leading 5G Innovative Solution & Product Exhibition Room**

The center will display an extensive portfolio of ZTE ICT products and solutions including 5G wireless, transmission, fixed network, core network, cloud IP, energy solutions and terminal products. You will see the latest innovation solution and get the knowledge of hot topic in telecom industry.

## ➤ **Cutting-edge 5G Telecommunication knowledge Training Center**

The center will serve as a training center for leading technology solutions and products. The two sides will focus on major national fields and directions in scientific research cooperation, talent training, and industry-university-research integration, and work together in cutting-edge technology, engineering practice, talent training, etc. While disseminating and delivering the latest industry technology and professional knowledge, they will also prepare for the training of talents and future national communications talents. In the future, the two sides will also reach certain cooperation and practice in personnel recruitment and student employment.

## ➤ **Joint Innovation and R&D Center**

The center will serve as a joint research and development center for both parties. Both parties will actively explore new models of school-enterprise cooperation, increase cooperation in electronic information, telecommunications disciplines, and new battery research (such as graphene batteries), break through development bottlenecks, enhance brand value, improve the international competitiveness of the industry, cultivate innovative talents, and use innovative talents to help build an innovative country, and work together to create a number of world-leading scientific and technological achievements.

# Exhibition Room

## RAN

### ■ Simplified Site On-demand

- **UniSite NEO:** ZTE's dual-socket Uni-Radio (also known as A+P in the industry) allows operators to flexibly make on-demand radio combinations according to their needs. For example, the 7-Band Uni-Radio (A+P) is the industry's most simplified site solution, integrating dual-band 32TR TDD Massive MIMO and the industry-unique FDD 5-band UBR. Furthermore, the 5G-A BBU supports the industry's largest multi-RAT capacity and large computing power for native-AI. With huge capacity and BBU native-AI, a variety of services can be enabled.
- **4G capacity boosting:** FDD Massive MIMO improves 4G capacity by 3~5x; QCell improves system capacity by 3~5x that of traditional cells by enabling SuperMIMO functionality.

## Transmission

### ■ CLOUD IP

- **All-Scenario IP Solutions:** The industry's largest 14.4T/slot wire-speed forwarding capability, leading commercial 10M-level flexible slicing, and over 15%-30% of dynamic energy saving based on AI.

### ■ All-Scenario OTN

- **All-Scenario optical network Real 400G Solution:** Uses the industry's strongest 128G baud rate to meet various coherent modulation modes (QPSK/16QAM/64QAM) in multiple scenarios. In C+L expansion, the industry's largest single-fiber capacity 100T+ is achieved, increasing the capacity by over 50%. Through industry-leading 400G QPSK modulation, the maximum transmission distance in backbone is increased by 60%, effectively reducing the number of relay stations. Meanwhile, the G-bit power consumption is reduced by 58%.

## Core Network

### ■ Unleash the AI potential of network and service

- **Intelligent Network:** Embracing intelligent engine for cloud core network.
- **Intelligent Service:** Empowering the new user experience and new business value with intelligent & interactive New Calling.

# Exhibition Room

## Intelligent computing and Green Energy

### ■ Server&Storage

- The full-series of servers provide high-quality heterogeneous computing power to meet the full-scenario requirements of customers for general-purpose computing, intelligent computing, and super-computing.
- High-performance distributed all-flash storage improves read/write efficiency by 10 times.
- Fully liquid cooled modular pre-fabricated IDCs with PUE as low as 1.13.

### ■ 5G Power Solution & Smart Li Battery

- ZTE provides products and solutions for base station power supply, large power supply in equipment rooms, green hybrid power supply, Lithium-ion battery storage and energy cloud management.
- For low carbon and sustainable development, ZTE takes digital and intelligent measures to lead a new round of transformation of the ICT energy infrastructure, to create a green ICT base.

## FM

### ■ FTTx Evolution and Smart Home

10G PON era is coming. With the most mature 10G PON solution, ZTE is also leading in 50G PON's development

Regarding connectivity as the foundation of home networks, also by delivering increased bandwidth, enhanced coverage and improved experience, ZTE aims to provide the ultimate whole-home gigabit-plus experience.

### ■ Beyond Video

ZTE provides home media terminals of all technology standards and multiple form factors to cover all application scenarios. Compared with traditional video terminals, the ZTE home media terminals deliver better experiences and higher value in more dimensions, thereby helping operators expand their content ecosystems and increase revenues through innovations.

### ■ FTTR

FTTR is an enhanced mesh network that provides Wi-Fi coverage with a consistent experience throughout the home and meets the bandwidth requirements of small and micro enterprises in the next 20 years.

# Exhibition Room

## Device

### ■ Intelligent Experience

*Build a leading mobile ecosystem*

As a global leader in smart terminals, ZTE keeps making 5G innovations to build the "1+2+N" ecosystem 2.0, meeting users' growing demands for visual experience, seamless connection and extension of senses. Here, you will experience ZTE's cutting-edge smart terminals and mobile devices, including The World's First AI-powered Eyewear-free 3D Pad. Powered by 5G and AI technologies, these innovations will bring you higher efficiency and greater convenience both at work and in life.

## Global End-to-end Service Capabilities

- ZTE has built an end-to-end engineering service system for 500+ operators in more than 160 countries and regions with high-quality networks and efficient services for over 2 billion users worldwide
- ZTE has 2,500+ high-quality partners in more than 160 countries and regions around the world, and a team of over 300 experts specialized in engineering outsourcing management
- ZTE has been making unswerving efforts on superb network construction for about 10 years, and has established superb networks with excellent 3rd Party evaluation results
- ZTE is committed to developing a "cloudified", "intelligent", and "simplified" comprehensive solution and establishing an end-to-end intelligent and simplified product tool system that increases their autonomous network level.

# Training Center

## Training goals

1. To enhance the interest of students in the telecommunications industry and disciplines.
2. To enable students to master the basic theoretical knowledge of the telecommunications industry and various product solutions.

## Training plan

Lecture PPT: All selected after communication with pre-sales.

Lecturers: Company executives, industry experts, and R&D. experts are selected to teach according to the selected topics.

Lecture Time: The project team communicates with the school about the teaching time.

Month	Training Topic	Trainer	Duration
1st Month	ICT Industry Introduction-1	ZTE Management & Expert	16H
2nd Month	ICT Industry Introduction-2	ZTE Management & Expert	16H
3rd Month	ZTE Solution Basics-RAN	Director of Solution & Expert	16H
4th Month	ZTE Solution Basics-MW	Director of Solution & Expert	16H
5th Month	ZTE Solution Basics-CCN	Director of Solution & Expert	16H
6th Month	ZTE Solution Basics-Datacom	Director of Solution & Expert	16H
7th Month	ZTE Solution Basics-WDM	Director of Solution & Expert	16H
8th Month	ZTE Solution Basics-FN	Director of Solution & Expert	16H
9th Month	ZTE Solution Basics-TE	Director of Solution & Expert	16H
10th Month	ZTE Solution Basics-Datacenter	Director of Solution & Expert	16H
11th Month	ZTE Solution Basics-Teminal	Director of Solution & Expert	16H
Certification	Examination & Certification	ZTE Management	2H
Sum			178H

# Training Plan

Month	Week	Training	Training Topic	Trainer	Duration
M1	W1	T1	General ICT Market&Industry Introduction	Mr.Xue	2H
M1	W1	T2	General ICT Market&Industry Introduction	Mr.Tang	2H
M1	W2	T1	General ICT Market&Industry Introduction	Mr.Victor	2H
M1	W2	T2	General ICT Technology Trends	Mr.Jones	2H
M1	W3	T1	Kz ICT Industry Introduction	Mr.Leon	2H
M1	W3	T2	General ICT Solution Basics-1	Mr.Leon	2H
M1	W4	T1	General ICT Solution Basics-2	Miss Ni	2H
M1	W4	T2	ICT Industry Trends Of RAN Product	Mr.He	2H
M2	W1	T1	ICT Industry Trends Of MW Product	Mr.Zhou	2H
M2	W1	T2	ICT Industry Trends Of CCN Product	Miss Zhang	2H
M2	W2	T1	ICT Industry Trends Of Datacom Product	Mr.Shang	2H
M2	W2	T2	ICT Industry Trends Of WDM Product	Mr.Ye	2H
M2	W3	T1	ICT Industry Trends Of FN Product	Miss Liu	2H
M2	W3	T2	ICT Industry Trends Of TE Product	Miss Zhao	2H
M2	W4	T1	ICT Industry Trends Of Datacenter Product	Mr.Lan	2H
M2	W4	T2	ICT Industry Trends Of Teminal Product	Miss Li	2H
M3	W1	T1	ZTE Solution Basics-RAN-1	Mr.He	2H
M3	W1	T2	ZTE Solution Basics-RAN-2	Mr.He	2H
M3	W2	T1	ZTE Solution Basics-RAN-3	Mr.Zhang	2H
M3	W2	T2	ZTE Solution Basics-RAN-4	Mr.Zhang	2H
M3	W3	T1	ZTE Solution Basics-RAN-5	Mr.Li	2H
M3	W3	T2	ZTE Solution Basics-RAN-6	Mr.Li	2H
M3	W4	T1	ZTE Solution Basics-RAN-7	Mr.Naz	2H
M3	W4	T2	ZTE Solution Basics-RAN-8	Mr.Naz	2H

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M3	W1	T2	ZTE Solution Basics-RAN-2	Mr.He	2H
M3	W2	T1	ZTE Solution Basics-RAN-3	Mr.Zhang	2H
M3	W2	T2	ZTE Solution Basics-RAN-4	Mr.Zhang	2H
M3	W3	T1	ZTE Solution Basics-RAN-5	Mr.Li	2H
M3	W3	T2	ZTE Solution Basics-RAN-6	Mr.Li	2H
M3	W4	T1	ZTE Solution Basics-RAN-7	Mr.Naz	2H
M3	W4	T2	ZTE Solution Basics-RAN-8	Mr.Naz	2H

# Innovation and R&D Center



## Innovation

Building on the school's academic capabilities to jointly create innovations in the communications industry



## Talent

Find and cultivate talent based on ecological and industry advantages



## Empowerment

We cover all fields of industry, provide various solutions, and provide high-quality courses for schools and customers.



## Standard

Work with schools and industry to jointly research and promote new industry standards (such as 6G)