ZTT

TELECOM

CONNECTING WONDERFUL LIFE WITH OPTIC-ELECTRIC NETWORK

www.zttgroup.com

CONNECTING WONDERFUL LIFE

WITH OPTIC-ELECTRIC NETWORK

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ABOUT US

ZTT Group(Full name: Jiangsu Zhongtian Technology Co., Ltd.) has a specialized industrial portfolio that includes marine equipment, renewable energy, smart grid, optical communications and industrial internet. ZTT was listed on Shanghai Stock Exchange (SSE) in 2002 (Stock Code in SSE: 600522). With 80 global subsidiary companies and over 16,000 employees, ZTT is one of the largest advanced manufacturing enterprises in China and is listed among the Top 500 Chinese Enterprises.

At ZTT, we are committed to reducing our environmental impact and working towards net zero goal. From our manufacturing processes to our product design and supply chain management, we strive to minimize our carbon footprint and conserve natural resources.

- Overseas Plants
- Overseas Subsidiaries

1992 Established   **160** Global Markets   **16,000⁺** Employees

44 Branch Offices   **80** Registered Subsidiaries   **5** Overseas Plants

2,500⁺ Patents   **Top-500** Enterprise in China   **$13.5** Billion Revenue 2023

Overseas Plants

India   Indonesia   Brazil   Türkiye   Morocco

OUR STORY

1992
• ZTT entered the field of optical communications.

1995
• ZTT successfully developed the underwater cable specifically designed for the Yangtze River area.

1997
• ZTT was identified as the national key high-tech enterprise.
• ZTT 960 core optical fiber ribbon cable passed the national qualification.

1999
• ZTT entered the field of Marine Equipment.

2000
• ZTT entered the field of Power Transmission.

2002
• ZTT A shares listed and issued on the Shanghai stock exchange.
• Zhongtian Technology Optic Fiber Co., Ltd. was established.

2004
• ZTT acquired of Shanghai Aluminum Factory and then founded Shanghai Zhongtian Aluminum Wire Co., Ltd.

2008
• ZTT established a national post-doctoral scientific research center.
• ZTT Research Institute was established.
• ZTT up-rating conductor passed the national certification.

2009
• ZTT was ranked among the top 100 technology enterprises in China.

2010
• ZTT entered the field of precise manufacturing.
• Zhongtian Technology Industrial Wire & Cable System Co., Ltd.was founded.

2011
• ZTT entered the field of renewable energy.

2012
• Zhongtian Photovoltaic Technology Co., Ltd., Zhongtian Photovoltaic Material Co., Ltd., Zhongtian Energy Storage Technology Co., Ltd., and Zhongtian New Energy Residential Technology Co., Ltd. were founded.
• ZTT was listed among the Top 500 Chinese private enterprises.

2013
• ZTT was recognized as national enterprise technology center.
• ZTT do Brasil Ltda was established.

2014
• ZTT successfully developed China's first ±320kV high-voltage DC cable.
• ZTT received the Excellence Award for Corporate Social Responsibility in the Annual List of China's Communication Industry.

2015
• ZTT Brazil factory held opening ceremony.

2016
• Jiangsu Zhongtian Bright Transformer Co., Ltd & ZTT Marine Systems Co., Ltd. were established.
• ZTT was ranked among Top 500 Chinese Enterprises.

2017
• ZTT Indonesia and ZTT Morocco were established.
• ZTT successfully developed the first flexible DC cable with largest capacity ± 525kV. Our cable has passed the qualification in China and worldwide.

2018
• ZTT Morocco started construction.
• ZTT Indonesia held opening ceremony.
• ZTT acquired Demirer Kablo.

2019
• ZTT won "China Quality Award".
• ZTT overseas factory in Morocco and Europe went into operation.

2020
• ZTT was awarded the 6th "China Grand Awards for Industry".

2021
• ZTT set up the "ZTT Scholarship", which was selected as an excellent case of social responsibility of Chinese private enterprises.
• ZTT released the action plan of "green and low carbon manufacturing", and the production energy consumption of the group decreased by 10% in the fourth quarter.

2022
• ZTT CE HYDROGEN CO.,LTD. was established, launched 35/70MPa hydrogen refueling stations and hydrogen dispensers.
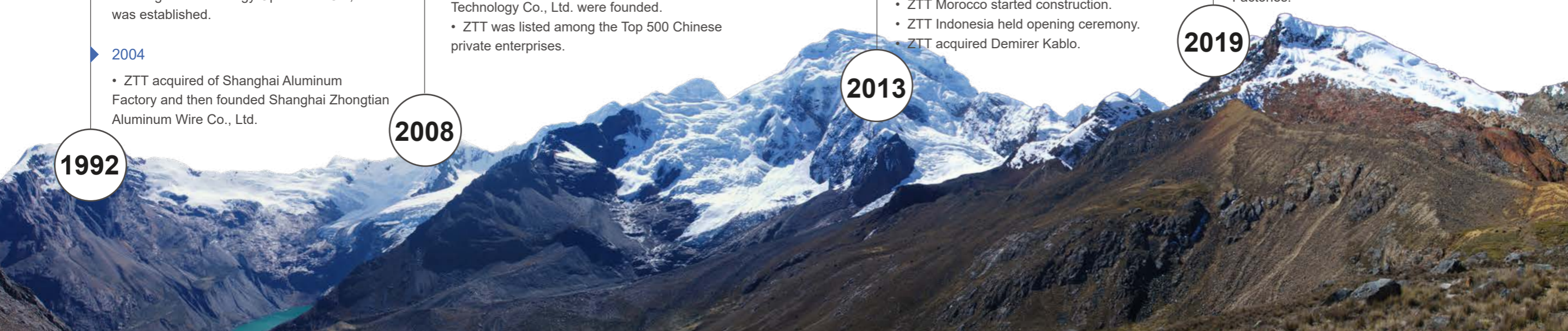
2023
• ZTT was invited to participated in the 28th United Nations Climate Change Conference (COP28).
• Two of our flagship factories under ZTT Group, Jiangdong Fittings Equipment Co., Ltd. and Zhongtian Electric Technology Co., Ltd, have been proudly recognized as Zero Carbon Factories.

1992

2008

2013

2019

FIELD

ZTT embarked on optical fibre communications in 1992. Presently, ZTT has built a specialized industrial portfolio for renewable energy, submarine system, power grid, telecommunications, industrial internet and EPC.

## Information & Communication

ZTT provides cables, components, devices, antenna feeders and infrastructure services for multi-dimensional network construction. The products include preforms, optical fibers, optical cables, ODN, antennas and RF cables, active terminals, optical transceivers, data centers, high-performance raw materials and other products for telecom infrastructure network, as well as engineering consulting, design, construction and integration services.
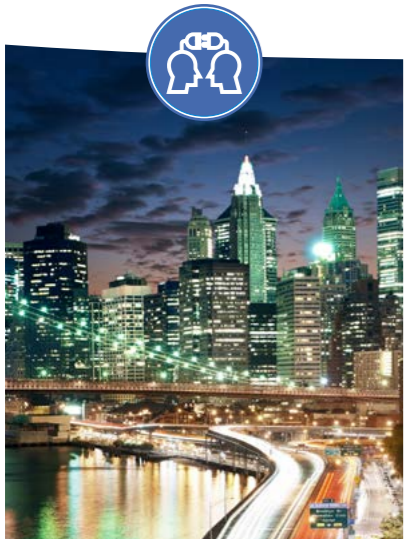
Smart Grid

Focusing on the development of power grid, ZTT is committed to building the whole product chain of power equipment products, and aims to the safety, energy conservation, environmental protection and intelligence, provides first-class system solutions for power transmission and distribution, receiving great praise with "ZTT Serves Power Grid, Power Grid Trusts ZTT" in the industry.

New Energy

Led with power station construction, featured with distributed photovoltaic, centered on microgrid technology, taking key materials as a breakthrough, and highlighted with large-scale energy storage system, renewable energy industry has gradually grown into a new growth pole of ZTT.

Marine Equipment

ZTT tightly grasps the development opportunities for submarine economy involving island development, marine new energy development, undersea observation network, marine resources exploration, and marine engineering equipment, adheres to the principle of equal emphasis on offshore & onshore resources and optoelectronic integration, provides overall solutions for marine equipment, and serves the construction of Chinese maritime power.

Industrial Network

ZTT integrated the national leading advantage of the identification resolution system, as well as industry-leading technologies such as cloud-native, blockchain, 5G, digital twins, and artificial intelligence. We have created an inclusive, low-cost, and sustainable digital transformation path, providing industrial personalized services with common foundations for the production, distribution, circulation, and consumption of various industrial enterprises.
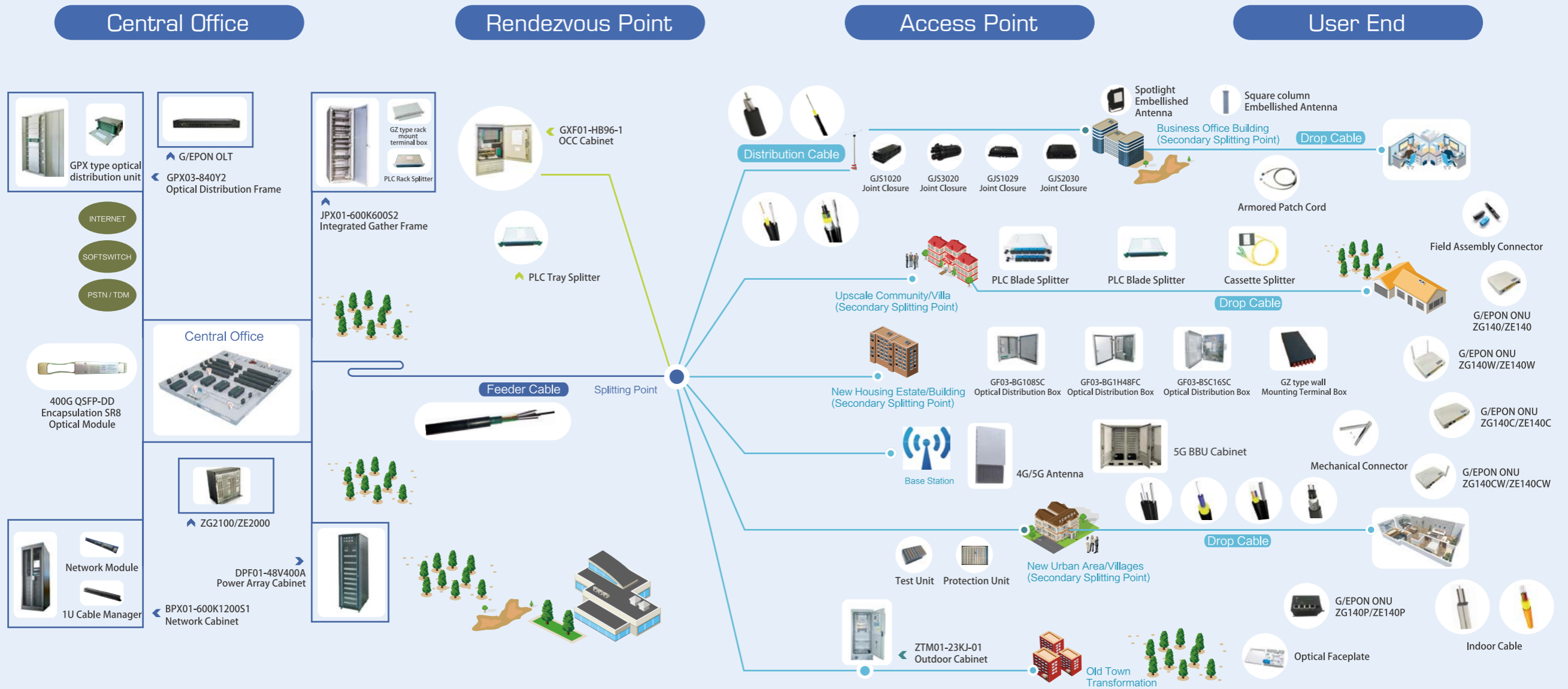
EPC

ZTT now extends its service to Finance, Design, Supply, Installation, Testing and Maintenance, and offers EPC, EPC+F, BOO/BOT solutions.

INTEGRAL CONNECTION SOLUTIONS FOR FIXED AND WIRELESS NETWORK

ZTT provides infrastructure product package solution such as optical cables, optical components, optical devices and antenna feeders for 5G network construction from cloud, pipe and terminal product.The products include all kinds of fiber preform, optical fiber, optical cable, ODN, antenna and radio frequency cable, active terminals, optical transceivers, data centers and other products, as well as engineering consulting, design, construction and integration services.

Central Office

GPX type optical distribution unit

G/EPON OLT

GPX03-840Y2 Optical Distribution Frame

GZ type rack mount terminal box

PLC Rack Splitter

JPX01-600K600S2 Integrated Gather Frame

INTERNET

SOFTSWITCH

PSTN / TDM

400G QSFP-DD Encapsulation SR8 Optical Module

Central Office

ZG2100/ZE2000

DPF01-48V400A Power Array Cabinet

Network Module

1U Cable Manager

BPX01-600K1200S1 Network Cabinet

Rendezvous Point

GXF01-HB96-1 OCC Cabinet

PLC Tray Splitter

Feeder Cable

Splitting Point

Access Point

Distribution Cable

GJS1020 Joint Closure
GJS3020 Joint Closure
GJS1029 Joint Closure
GJS2030 Joint Closure

Upscale Community/Villa (Secondary Splitting Point)

PLC Blade Splitter

PLC Blade Splitter

Cassette Splitter

Drop Cable

New Housing Estate/Building (Secondary Splitting Point)

GF03-BG108SC Optical Distribution Box
GF03-BG1H48FC Optical Distribution Box
GF03-BSC16SC Optical Distribution Box
GZ type wall Mounting Terminal Box

Base Station

4G/5G Antenna

5G BBU Cabinet

Mechanical Connector

Test Unit   Protection Unit

New Urban Area/Villages (Secondary Splitting Point)

Drop Cable

ZTM01-23KJ-01 Outdoor Cabinet

Old Town Transformation

User End

Spotlight Embellished Antenna

Square column Embellished Antenna

Business Office Building (Secondary Splitting Point)

Drop Cable

Armored Patch Cord

Field Assembly Connector

Drop Cable

G/EPON ONU ZG140/ZE140

G/EPON ONU ZG140W/ZE140W

G/EPON ONU ZG140C/ZE140C

G/EPON ONU ZG140CW/ZE140CW

G/EPON ONU ZG140P/ZE140P

Indoor Cable

Optical Faceplate

FTTX ODN SOLUTION

ZTT specializes in the production of optical cross connecting cabinet, optical distribution frame, digital distribution frame, integrated cabinet, outdoor cabinet, broadband access box, optical fiber distribution box, floor box, optical fiber connector, optical joint box, optical terminal box, PLC splitter and other products. We provide customers with one of the most complete product categories in the industry.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
ODF(Optical fiber distribution frame)	Integrative gather frame	DDF(Digital distribution frame)	Ribbon cable	Joint closure/ Pre-Connectorized FAT	Cross connecting cabinet	Directly buried cable	Optical cable distribution box/ Floor box	Indoor bunchy cable	Drop cable	Optical fiber outlet	Duct cable	Figure -8 drop cable	Broadband access box-FTTB

15	16	17	18	19	20	21
Broadband access box-FTTH	Network cabinet	Wall mounted rack	Outdoor cabinet	Figure-8 optical cable/ Pre-connectized Drop Cable	Duct drop cable	Cold channels rack

BACKBONE NETWORK
SYSTEM SOLUTION

ZTT specializes in the research and development, production and distribution of indoor and FTTX optical cables, micro-optical cables, soft armored optical cables, low-voltage photoelectric composite cables and other products. The products include both regular products and customized products for sepcial demand. The cable performance and quality are industry-leading. ZTT can also provide customers with customized system solutions.
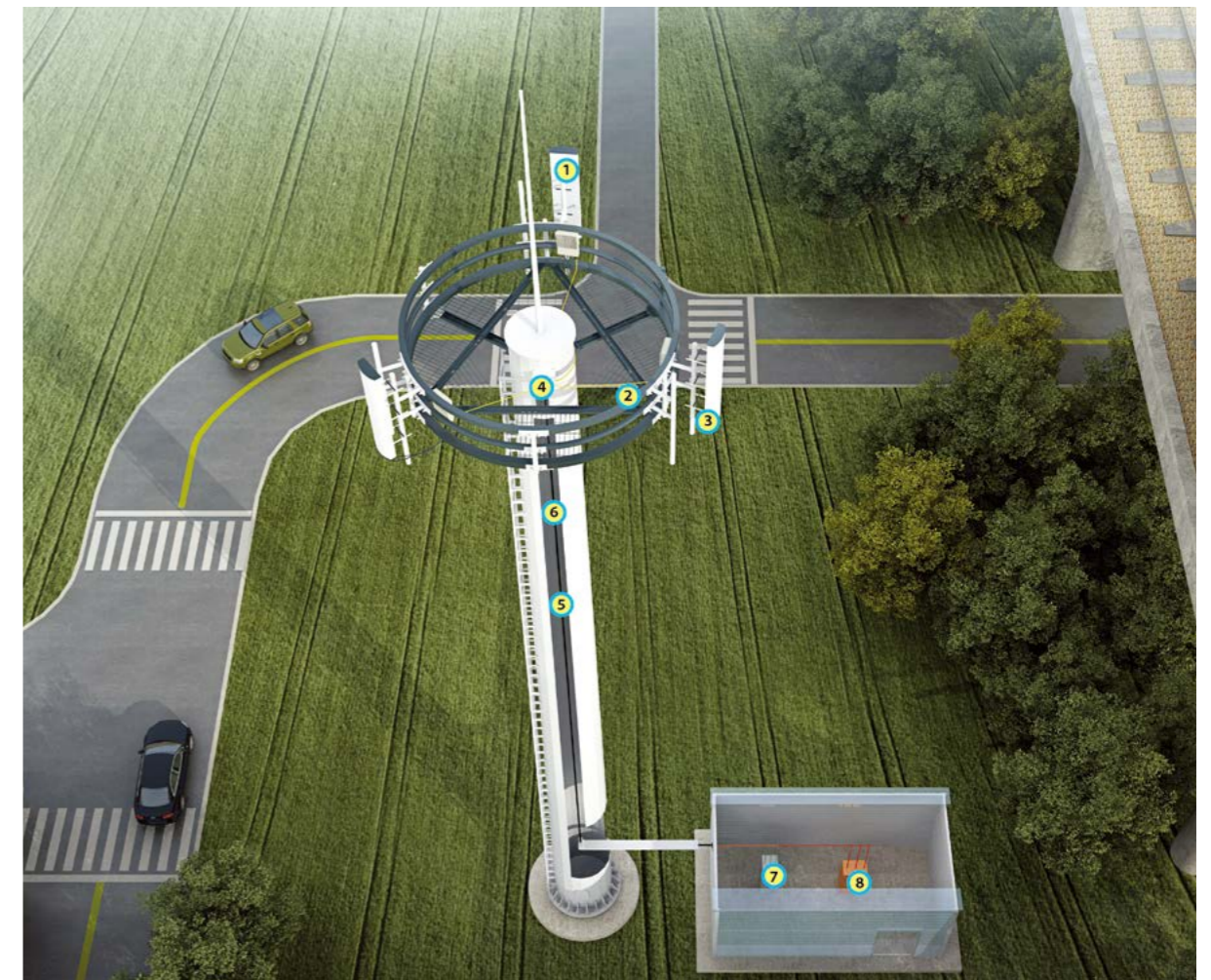

Duct cable	Anti-rodent and termite cable	Ribbon cable	Under water cable
Burial cable	Air-blown cable	Mine cable	Fire or flame resistance cable
Micromodule cable	FTTX cable	Self-supporting cable and fittings	

HYBRID SOLUTION

With the development of BBU and RRU, it comes into being FTTA system.

ZTT hybrid cable combines optical fiber cable and power cable in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for Remote Radio Head (RRH) deployments.

ZTT hybrid cable provides the cabling expenditure reductions, easy installation and operational efficiency for mobile and telecom operators.

1	2	3	4	5	6	7	8
Antenna	FPHC jumper[1/2"]	RF jumper[1/2"]	Branch box	Hybrid cable[7/8"]	Prefabricated hybrid jumper(4&5)	Optical transceiver	UPS

WIRELESS COMMUNICATION SOLUTION OF RAIL TRANSIT

It is committed to provide professional cables and supporting accessories for wireless communication of rail transit system, and leaky cables developed by ZTT support 2/3/4/5G applications.

LCX clamp for high speed railway
Anti 400Km/h wind tunnel impact load

Antenna
Narrow beam and high gain achieving full coverage of the open area

Fiber and power hybrid cable
Solve the problem of remote device signal access and power supply at the same time

Leaky coaxial cable
The best solution for the long and narrow space and support 2G/3G/4G/5G multi system combined

UPS lithium battery pack
Ensuring zero delay power supply of base station

1	2	3	4	5
Leaky coaxial cable	UPS lithium battery pack	Fiber and power hybrid cable	Antenna	LCX clamp for high speed railway

5G ROOMTOP LEAKY CABLE SOLUTION

ZTT proposed an innovative roomtop leaky cable solution: replace the traditional combination scheme of "ceiling antenna + feeder + passive components" with "one wide-angle radiation leaky cable". The wide-angle rooftop leaky cable is a kind of special coaxial cable. Its outer conductor is provided with periodic slots, which has the dual functions of feeder and antenna. It has both the signal transmission function of feeder and the signal transceiver function of antenna.

ZTT also offers a whole range of services which includes：

System design   Package solution   Installation instruction   Turnkey is available in selected scenario

Roomtop is the latest wireless coverage solution for In-Building system.

Coupler

ROOFTOP Leaky cable

RRU

RF cable   Load

Hybrid cable

Application Scenarios：

Office building, Shopping mall, Hospital, School , Hotel, Airport, Underground parking, Old building renovation, Exhibition hall, Metro station hall and etc.

# MIMO & LOW-LOSS LEAKY CABLE SOLUTION FOR METRO SYSTEM

MIMO 5G leaky cable is developed with dual polarization slot technology by ZTT, the advantages are as following,
- Horizontal and vertical polarization, 360° full coverage, no blind spots.
- Minimum installation distance reduces to 30cm, no signal interference.
- Saving tunnel space resources.

ZTT also developed 5G low loss broadband radiation leaky cable, with uniform field strength from beginning to end, uniform signal coverage. Wide band realizes co-construction and sharing of different operators and break through the transmission bottleneck of traditional leaky cable.
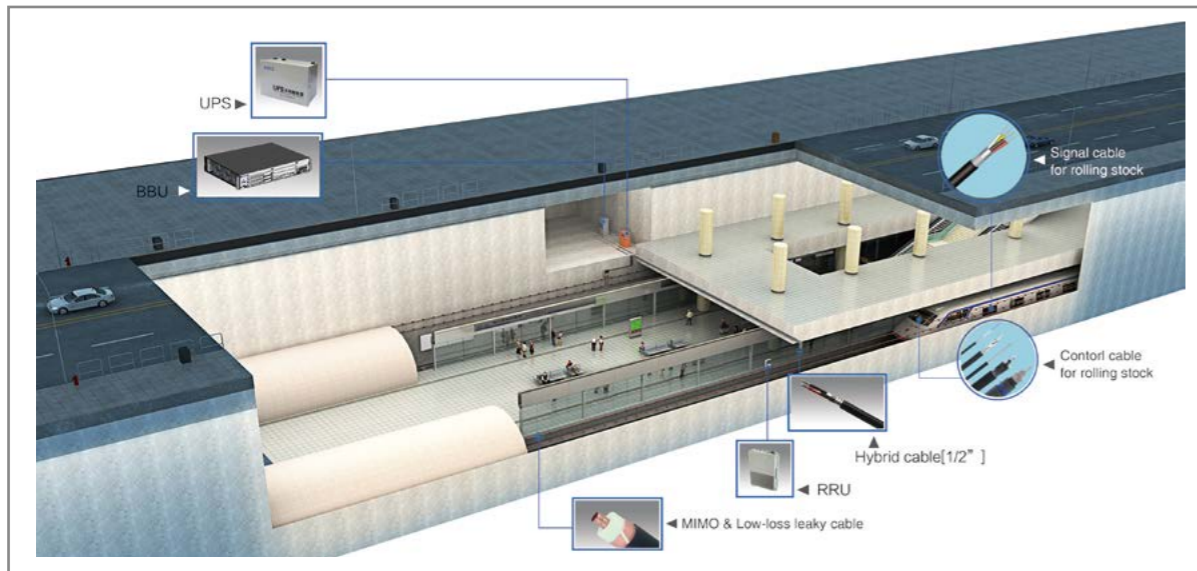
T-BLOCK COMPLETE SOLUTION
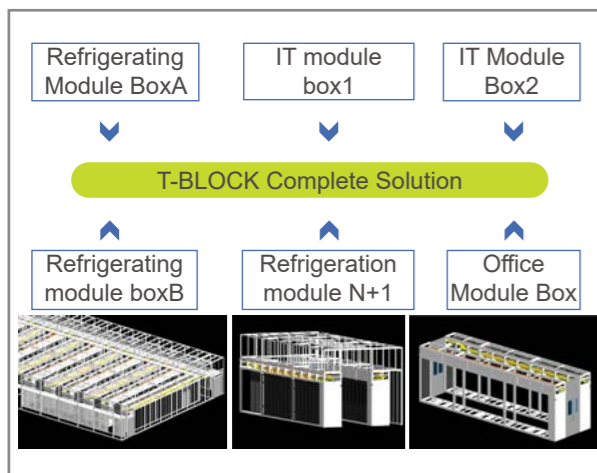
ZTT has the data center design ability, including rich traditional data center design, complete T-BLOCK data center BIM modeling, each module (power supply, integrated wiring, bridge, air conditioning, power distribution, lighting, fire protection, computer room installation) prefabricated integration and on-site construction drawings, implement and optimize customer demand effectively.

ZTT has completed hundreds of engineering projects at local and overseas. It has rich implementation experience in communications, informatization, electromechanical, construction, electric power, new energy, intelligence, security, etc., and has the ability to construct various modules of T-BLOCK.

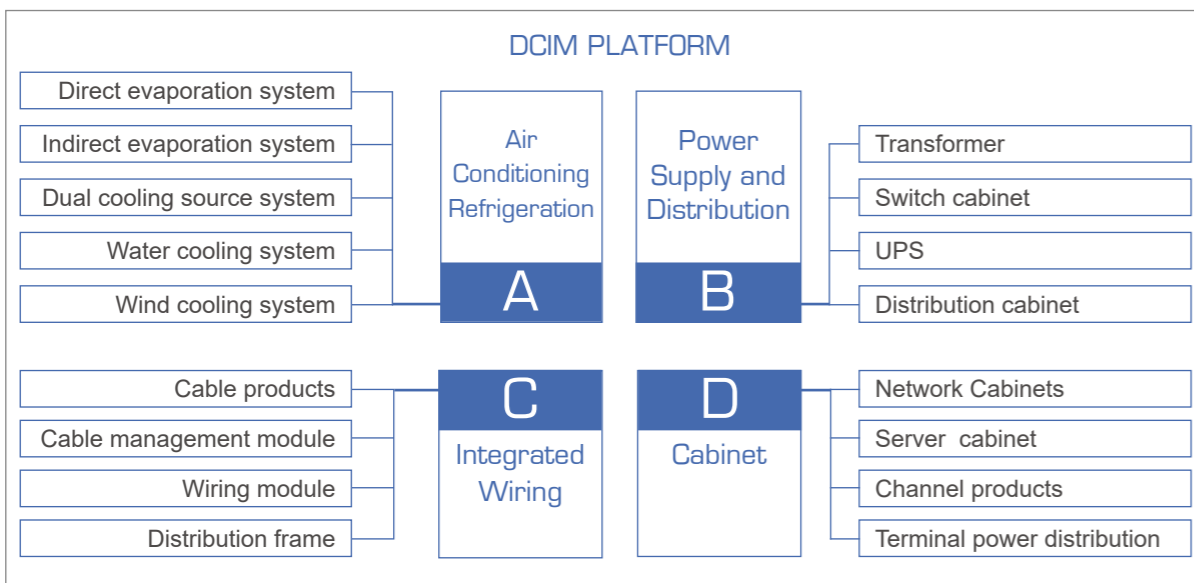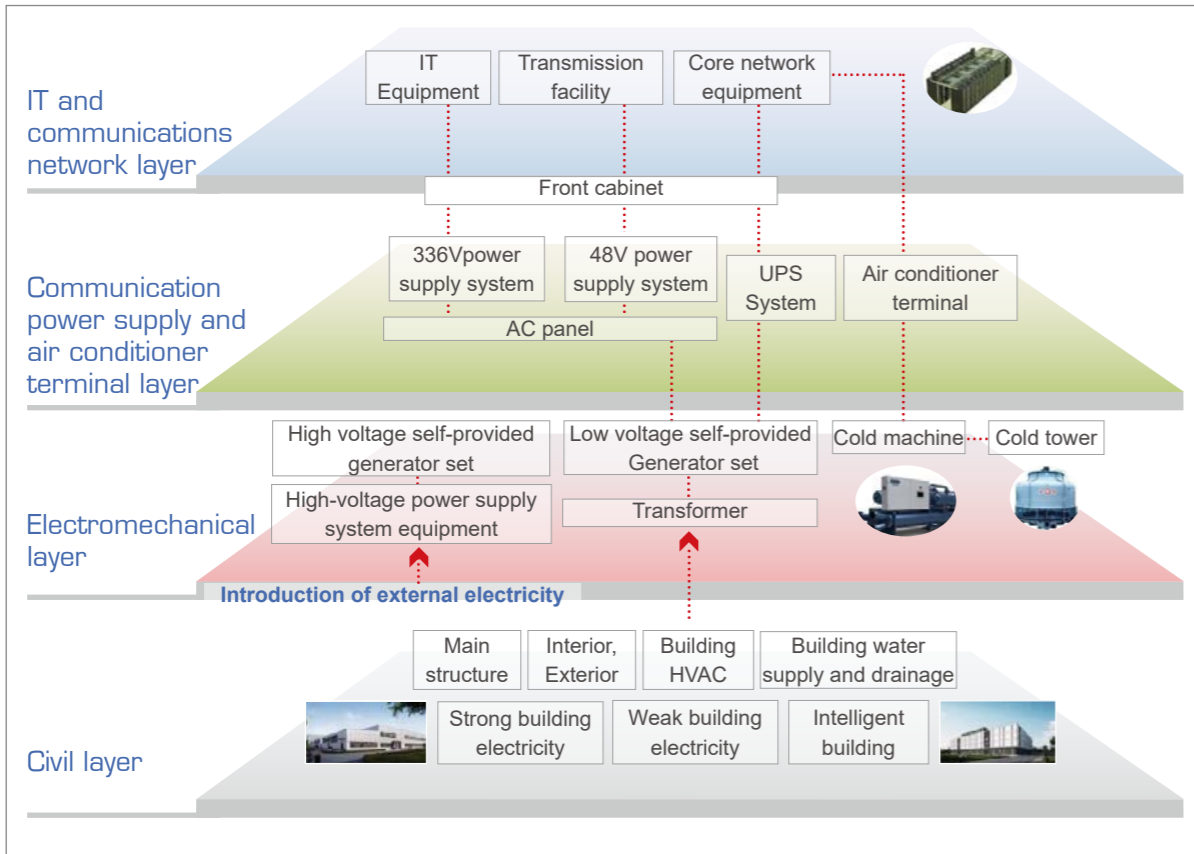# DATA CENTER INTEGRATED SOLUTION
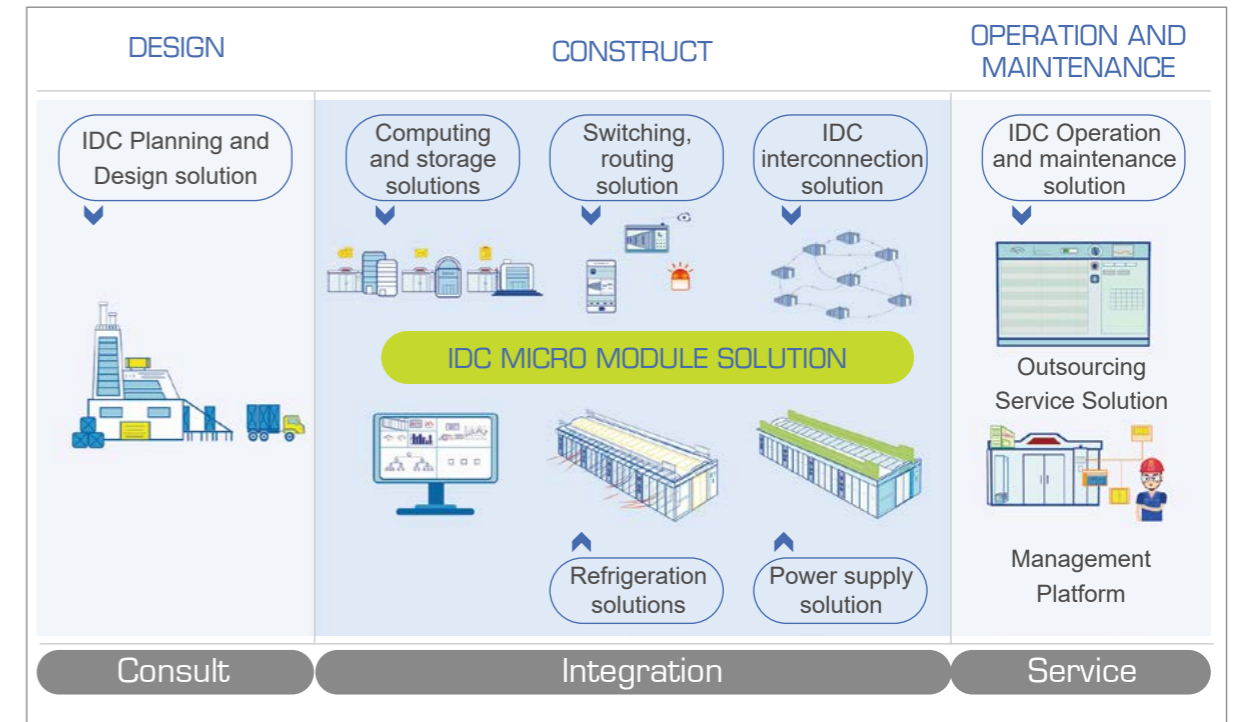
Data center supporting products

Large and medium-sized data center in addition to the main equipment and oil machine, to provide a full range of product solutions.

The data center is classified according to four levels: civil construction layer, electromechanical layer, communication power and air conditioning terminal layer, IT or communication network layer. ZTT's own products cover all products of electromechanical layer, communication power supply and air conditioning terminal layer, as well as some products of IT and communication network layer and civil construction layer.
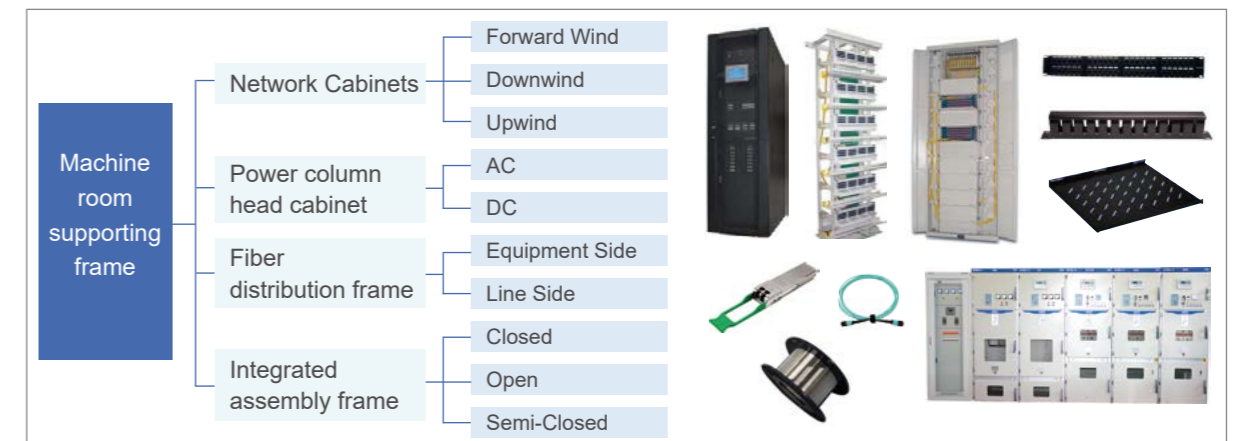
We also provide general contracting services such as project consulting, design, construction, material provision, operation and maintenance, etc.,and applies industry-leading experience in data centers to improve user operating efficiency.

IT and communications network layer

| IT Equipment | Transmission facility | Core network equipment |

Front cabinet

Communication power supply and air conditioner terminal layer

| 336Vpower supply system | 48V power supply system | UPS System | Air conditioner terminal |

AC panel

Electromechanical layer

| High voltage self-provided generator set | Low voltage self-provided Generator set | Cold machine | Cold tower |

| High-voltage power supply system equipment | Transformer |

Introduction of external electricity

Civil layer

| Main structure | Interior, Exterior | Building HVAC | Building water supply and drainage |

| Strong building electricity | Weak building electricity | Intelligent building |

DCIM PLATFORM

Direct evaporation system		
Indirect evaporation system	**A** Air Conditioning Refrigeration	**B** Power Supply and Distribution	Transformer
Dual cooling source system			Switch cabinet
Water cooling system			UPS
Wind cooling system			Distribution cabinet

Cable products		
Cable management module	**C** Integrated Wiring	**D** Cabinet	Network Cabinets
Wiring module			Server cabinet
Distribution frame			Channel products
			Terminal power distribution

MAIN PRODUCTS

OPTICAL FIBER PREFORM

- G.654E/G.652/G.657/G.655/G.656 etc. single-mode optical fiber preform
- Multi-mode optical fiber preform
- Specialty optical fiber preform
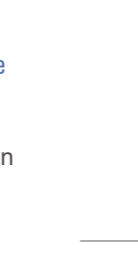
OPTICAL FIBER (TELE WEAVE™)

- ZTT-ALF® G.652D Low PMD non-dispersion shifted low-loss series of optical fiber
- TELE WEAVE-Tera™ G.654 Low-loss and ultra large effective area optical fiber
- TELE WEAVE-Focus™ G.655 Low PMD non-zero dispersion shifted SMF
- TELE WEAVE-Slim™ 200um/180um small size series of optical fiber
- TELE WEAVE-Premium™ G.657A1/A2/B3 Bending insensitive optical fiber
- TELE WEAVE-Broad™ OM1/OM2/OM3/OM4 MMF
- Low temperature resistance optical fiber
- TELE WEAVE-Phoenix™ High temperature resistance optical fiber
- High intensity and ultra-long haul optical fiber for submarine communication networks
- Ultra low bending loss SMF with high pressure resistance

SPECIAL COMMUNICATIONS CABLE

• Figure-8 Self-supporting Aerial Cable

Self-supporting structure, directly overhead, reduce the cost of laying

• Optical Fiber Composite Power Cable

Conduct simultaneously the transmission of optical signals and weak electricity

• Clean Hand® Dry Cable

Full dry structure, environmental protection, easy construction. New all dry fiber ribbon cable, easy splice

• Central Tube Cable

Beam tube structure, small diameter, light weight

• Color Stripe Cable

Identified by using the color stripe, easy to distinguish

• Drain Cable

Corrosion-resistant, anti-bird pecking, anti-rat biting

• FTTH Indoor Optical Cable

Easy to splice, with anti-retardant and self-extinguishing

• Easy tear™ Micro bundle cable

Easy sheared with two fingers, excellent flexible and convenient for installation

• Island link® Steel Wire Armored Cable

Meet climbing buried and underwater laying application requirements, etc.

• BlownElite® Air Blowing Micro Cable

Small diameter, light weight, blowing laying ,easy to expanse

• Bite guard® Nylon Cable

Use Nylon sheath, anti-bird pecking, anti-rat biting

• Fireproof Cable

Withstand 750 ℃ flame, protect smooth communication and data backup while firing. Meet with CPR requirements

• Bite guard® FRP Armored Cable

Excellent anti-rodent, Non-metallic armor with light weight

• Integration™ Indoor/ Outdoor Drop Cable

Easy fiber deployment, indoor and outdoor for distribution network and access network

• One Fiber One Tube Figure 8 Cable

Easy fiber deployment, distribution network before access network

• Stealth-tek® Invisible Cable

Installed cable almost undetectable to the casual observer

• Bunchy Armored Cable

Bunchy structure, spiral armor, strong flexibility, good resistance to stress

• Butterfly Drop Cable

Easy to construct and isolate directly for the introduction of FTTH indoor and outdoor

• Ballet™ Flexible Tube Cable

provide optical fiber cable products with better softness and flexibility.

• 3-Strand Cable

Small size and light weight; Applicable for short span aerial and duct installation;

• Low Fiction Cable

Small size, light weight, more easily through the pipeline. Coefficient of friction μ≤0.15

• High Fiber Count Cable

Max fiber counts: 864 fo. Suitable for increasing high bandwidth and connection capacity constructions in data center and campus.

ENERGY-INTEGRATED CABINET

ZTT can provide custom ODU from 24U to 46U.

- Multi-energy integration to improve power supply capacity

- Standardized design and flexible configuration

- Highly compatible and cost-efficient (Idle batteries reuse)

- Digital power supply with high density

- Intelligent operation and maintenance for improving efficiency

- Intelligent battery for maximizing the value of its life cycle

Display platform
Air conditioner

Multiple input multiple output power supply

Smart lithium battery

12U Reserved space

Multiple Input Multiple Output Power Supply

- Mixed Insertion of various rectifier/conversion modules

- OPEX Saving

- Online Monitoring and Maintenance：MIMO meets the requirements of various scenarios and can be inserted by different modules, flexibly configured when required

Smart Lithium Battery

- Smart Lithium battery adds a DC/DC circuit on the basis of the traditional BMS design to realize the intelligent control of the charging and discharging voltage and current of the lithium battery.

- Information collection: single cell voltage, battery voltage, current, cell temperature, SOC, SOH, hardware failure detection.

PRE-CONNECTORIZED

Outdoor Waterproof Pre-Connectorized FAT

This product design is used to connect the OCC with the full pre-connectorized FAT.It needs to support ordinary optical cable access into the box body, after splicing through the pre-connectorized connector, and connecting the full pre-connectorized FAT.At the same time, it also needs to support mid-span or splicing function of ordinary optical cable.

Indoor Waterproof Pre-Connectorized FAT

It can be used in shelters with certain protective capabilities, such as the machine room, indoor, and corridor, to realize optical distribution and relay action

from optical connecting cabinet or the machine room to the user end. At the same time, it also needs to support splicing function of ordinary optical cable.

Outdoor Waterproof Pre-Connectorized Connector

Design is suitable for critical industrial environments and outdoor environments. The adapter is assembled on the box and the joint closure, and the connector is inserted into the adapter to achieve quick connection. The seal between the adapter and the connector can reach the standard of IP68.

Outdoor Pre-connectorized Cable(EC-01)

- Plug and play
- Excellent temperature performance
- Good repeatability
- Tensile strength (300 N)
- IP 68

Pre-connectorized Drop Cable (EC-02)

- Plug and play
- Excellent temperature performance
- Good repeatability
- Tensile strength (300 N)

XPON SERIES PRODUCT

ZTT has rich xPON product lines, covering EPON, GPON, 10GEPON, XG(S)PON (under development).

EPON OLT: EP550/EP350

Converged xPON: GP5000-06/10CHS

- Distributed architecture to meet line speed forwarding.
- Dual MCU and dual power supply redundancy, TypeB/C dual-homing protection, carrier-level reliability.
- Support access and aggregation integration of EPON/GPON/10GEPON/XG(S)PON/GE/10GE to reduce costs.
- Large capacity, high density, support up to 128 EPON/GPON and 64 10GEPON/XG(S)PON.
- Support routing function to achieve dual roles of PON access and core/aggregation.
- Support COP management.

- Support layer-3 routing
- Support 1:1 convergence
- Support COP management
- Support Type-B dual-homing

| GPON OLT: GP2500 Series | 10G EPON OLT: P6500 | EPON OLT: P3000 Series |

DATA NETWORK CABLE

ZTT network cable system includes network cable, copper jumper, module/smart module/POE power supply module, patch panel/smart patch panel, cable manager, high-end shielded/unshielded pressure-free crystal head, network tool kit, etc.

FLEXIBLE CABLE

Low voltage power cables for communication systems are mainly used for power transmission of communication base stations, data centers, and communication tower systems, including the city grid, transformers, generator sets, low-voltage AC distribution panels, DC distribution panels, batteries, lightning protection devices, ground row, antenna, RUU and other electrical equipment.

Low-smoke, halogen-free, flame-retardant and high-safety power cables are mainly used for public network coverage and signal system power transmission in densely populated places such as subways, tunnels, and high-rise buildings.
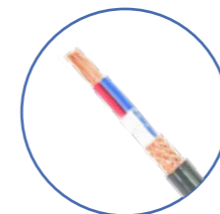
Shielded flame retardant flexible cable

Flame retardant flexible cable

Armored flame retardant flexible cable

Low smoke halogen free flame retardant fire resistant flexible cable

HYBRID CABLE FOR OUTDOOR
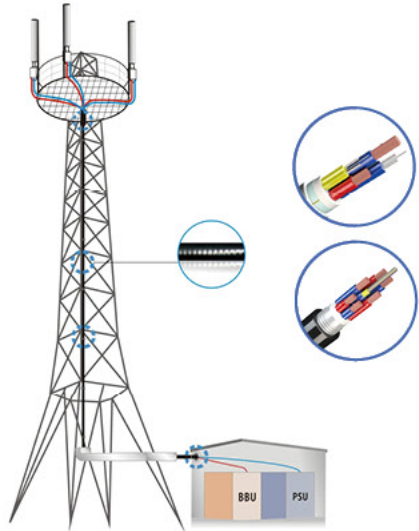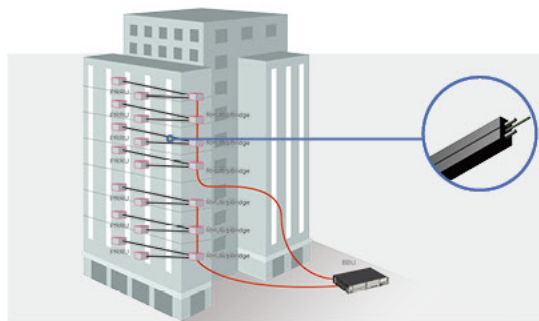
ZTT's Hybrid solution lead network evolution to 5G, with certificates and rich supply experience, can provide design, package solution and installation instructions to customers. Both hybrid cable and cable assembly are available to be provided as long as customer share the required details.

HYBRID CABLE FOR INDOOR

Indoor type hybrid cable used for 5G IBS, with smaller outer diameter and light weight, could
not only transmit signals but also provide electricity for active equipment in PicoSite. ZTT is Expert in this type cable manufacturing, moreover, which has built an annual capacity of 55,000 km hybrid cable, also becoming a leading manufacturing enterprise in this field.

5G ROOMTOP LEAKY CABLE
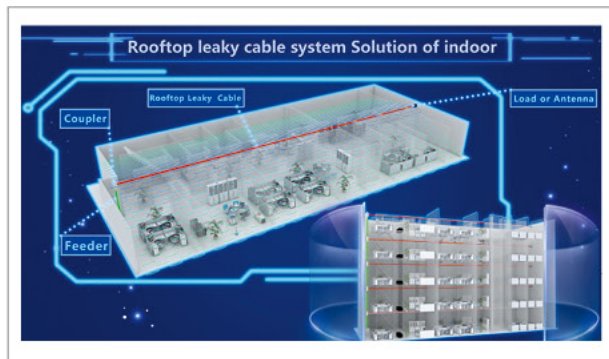
- Signal is more uniform than DAS, effectively reduce blind spots, and directly upgrade from 4G to 5G.
- Hidden inside ceiling, resolve the issue of users' repulsion on visible antennas.
- Reduce 90% of connections & fault points, PIM value also get improved.
- More convenient on installation, 50% manpower get reduced.
- Save over 15% of total cost compared with DAS.

RF / LEAKY COAXIAL CABLE

ZTT provides customers with wireless antenna system, rail transit leakage communication system solutions and products.

ZTT RF cable and leaky coaxial cable have the features of low attenuation, low VSWR and other characteristics, and are suitable for 3G, 4G and 5G constructions. ZTT products have been successfully applied to Beijing Olympic Games, Shanghai World Expo and other major projects.
ZTT has founded enterprise academician workstation, and has the only test platform of leaky coaxial cable tunnel simulation, leading the development of radiant leakage cable industry standards in China.

ANTENNA

Base Station Antennas

ZTT provides customers with a full range of base station antenna products for 4G and 5G.

| 4G/5G Integrated Antennas | TDD Antennas | Multi-beam Antennas |

In-Building Antennas

| Cell-Max™ Directional In-building Antenna | Cell-Max™ Omni In-building Antenna | Cell-Max™ Log Periodic Outdoor Antenna |
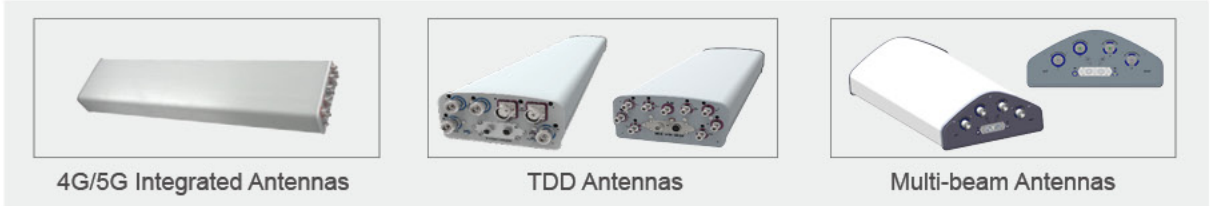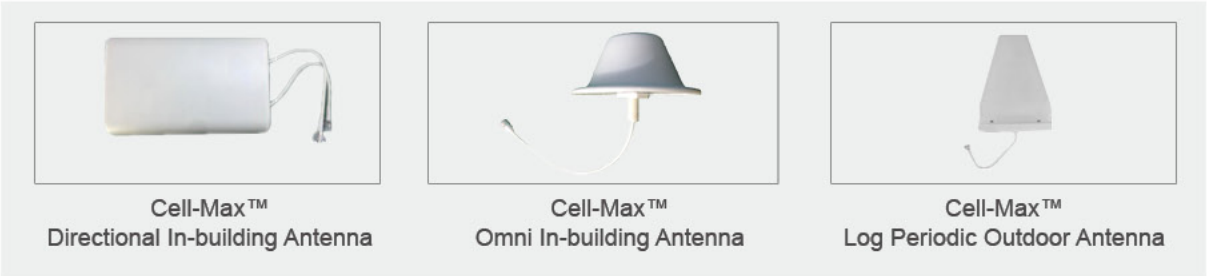
Indoor Camouflage Antennas

Indoor camouflage antennas belong to indoor antennas. While meeting the needs of customers for indoor signal coverage, the appearance of the antenna is camouflaged and modified by various means to achieve the purpose of beautifying the indoor visual environment.

| Smoke Camouflage Antenna | Switch Box Camouflage Antenna | Mural/corridor Camouflage Antenna |

OPTICAL TRANSCEIVER

ZTT provides various product solutions from 1.25G to ZTT provides various product solutions from 1.25G to 400G for communication equipment manufacturers, cloud services and data center equipment and other industrial customers. ZTT focuses on 5G fronthaul application and datacenter application.

400G QSFP-DD DR4/FR4 Optical Transceiver

400G QSFP-DD DR4

• 8-channel high-speed PAM4 electrical interface
• MPO-12 optical interface
• Silicon photonics platform
• 4 pair independent optical channels
• The maximum transmission distance of single-mode fiber (SMF) over 500 meters
• Maximum power consumption ≤10W
• Case temperature: 0 to 70℃

400G QSFP-DD FR4

• 8-channel high-speed PAM4 electrical interface
• LC receptacle optical interface
• High performance/reliability CWDM4 EML laser
• Integrated CWDM MUX&DEMUX
• The maximum transmission distance of single-mode fiber (SMF) over 2km
• Maximum power consumption ≤12W
• Case temperature: 0 to 70℃

100G QSFP28 SR4/CWDM4/LR4 Optical Transceiver

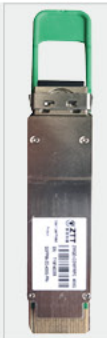**100G QSFP28 SR4**

• 4-channel high-speed electrical interface
• MPO-12 optical interface
• 4 pair independent parallel optical lanes
• The maximum transmission distance of OM4 multimode fiber (MMF) over 100 meters
• Maximum power consumption ≤2W
• Case temperature: 0 to 70℃

100G QSFP28 CWDM4/LR4

• 4-channel high-speed electrical interface
• LC receptacle optical interface
• High reliability CWDM4/LAN-WDM DFB laser
• The maximum transmission distance of single-mode fiber(SMF) over 10km
• Maximum power consumption ≤4.5W
• Case temperature: 0 to 70℃

10G/25G/100G AOC

100G/25G/10G AOC

• High-speed differential data input and output
• Low power consumption and high performance
• Fiber link length can be customized
• Case temperature: 0 to 70℃

25G SFP28/10G SFP+ Full Series

25G SFP28/10G SFP+

• Build in multi-rate CDR
• Single fiber or dual fiber LC interface
• High-speed and high performance laser
• WDM wavelengths solution available (CWDM/DWDM/MWDM)
• Maximum transmission distance up to 40km
• Maximum power consumption ≤ 2W
• Case temperature: -40 to 85℃

OVERSEAS REFERENCE

Total Overseas Supplied FTTx More than 6,086,000 pcs.

Total Oversea Supplied Cable Length More than 3,649,107 Km

Africa

Egypt	37,535 km	Cameroon	1,406 km
Morocco	6,563 km	Uganda	5,161 km
Zimbabwe	5,143 km	Kenya	15,348 km
Nigeria	5,015 km	Zambia	3,957 km

Europe

France	101,028 km
Germany	146,601 km
UK	14,235 km
Finland	5,008 km
Montenegro	2,842 km
Slovenia	9,114 km
Serbia	24,443 km
Romania	32,869 km
Portugal	11,399 km
Sweden	3,160 km
Greece	7,430 km

Asia

Vietnam	216,788 km
Uzbekistan	11,059 km
Malaysia	21,953 km
Philippines	182,007 km
Singapore	11,792 km
Cambodia	23,865 km
Indonesia	89,326 km
Thailand	462,805 km
Sri Lanka	38,011 km

Latin America

Colombia	31,650 km
Peru	48,676 km
Brazil	129,094 km
Chile	72,291km

North America

Mexico   203,830 km

Oceania

New Zealand   3,007 km

SOCIAL RESPONSIBILITY

Employee Care

ZTT first established the working mechanism of "spiritual mentor for employees", which embodies the scientific management principle of "always putting people first" and gives full humanistic care to our employees.

Charity Activities

While developing steadily, ZTT has set up a "ZTT charity fund" to actively participate in social charities, respond to natural disasters immediately. ZTT donated money and materials in the fight against snow disasters, earthquakes and other disasters, and organized engineers to provide technical assistance and support for communication power restoration.

Gender Equality

ZTT is committed to gender equality, and understand that diversity leads to better business outcomes. We are working towards achieving gender equality in our business by creating a gender-inclusive and equitable work environment; making progress on a gender-balanced workforce, and establishing an inclusive and unbiased culture.

Cultural Diversity

ZTT, as an international company, has been recruiting international employees from different cultural background, and implemented local construction according to the development and cultural traditions of different countries, and is committed to becoming a part of its community, earning the recognition of natives.

Charity Activities

ZTT invested Hope Primary School to support underprivileged students and ensure they have access to quality education

ZTT donated money through the Pakistan Embassy to support Pakistan's post-flood home rebuilding efforts

ZTT promptly responded to the 7.0 magnitude earthquake in Turkey, providing relief and launching a donation campaign for recovery efforts

ZTT India donated anti-epidemic funds to AP State Government Epidemic Prevention Foundation

At ZTT, we prioritize green manufacturing and sustainable development as essential values in fulfilling our corporate social responsibility. We actively promote resource conservation, environmental friendliness, and the pursuit of our net-zero goal. Our dedication has been acknowledged through our selection as the benchmark enterprise for social responsibility in China's communication industry.

As part of our commitment to a lowcarbon future, 500 kWp Rooftop Solar PV plant has been installed at ZTT's office building and most factories' roofs.

40% ↑
office power consumption supplied by solar energy
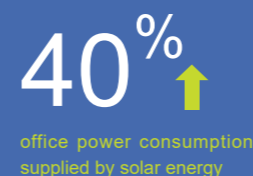
ZTT offers various green energy solutions to customers, fostering the advancement of clean and sustainable energy. In 2022, ZTT proudly ranked the 55th among the "Top 500 Global New Energy Enterprises." By that same year, our cumulative installed capacity for photovoltaic green power reached 384 MW, generating 423.91 million kWh of clean energy. This achievement translates to a remarkable reduction in carbon emissions, equivalent to 422,639 tons.

Equivalent to
23.1 million
trees were planted

ZTT strictly complies with relevant environmental laws and regulations, and has established a sound environmental management system.

$10 million
investment for environmental protection

ZTT has implemented a range of effective measures to conserve water resources. We have established clear water-saving objectives and enhanced water consumption management practices.

80,000 tons
water saved

UN Sustainable Development Goals Addressed

| 1 NO POVERTY | 2 ZERO HUNGER | 3 GOOD HEALTH AND WELL-BEING | 4 QUALITY EDUCATION | 5 GENDER EQUALITY | 6 CLEAN WATER AND SANITATION | 7 AFFORDABLE AND CLEAN ENERGY | 8 DECENT WORK AND ECONOMIC GROWTH | 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE |

| 10 REDUCED INEQUALITIES | 11 SUSTAINABLE CITIES AND COMMUNITIES | 12 RESPONSIBLE CONSUMPTION AND PRODUCTION | 13 CLIMATE ACTION | 14 LIFE BELOW WATER | 15 LIFE ON LAND | 16 PEACE, JUSTICE AND STRONG INSTITUTIONS | 17 PARTNERSHIPS FOR THE GOALS |