



**Corporate Brochure  
2019/2020**

# **Comprehensive Industrial Solution**

**For Telecommunication And Networking Needs**



**Sourcing | Maintaining | Repairing | Decommissioning  
of telecommunication and networking equipment**

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# About Telecom Easy

- **12 months warranty for both refurbished and new**
- **5 to 7 days lead time**
- **30-40% saving on new**
- **50-80% cost saving on refurbished**
- **Professional and technical support in the purchase process**

Telecom Easy supplies high quality new-surplus, refurbished and used telecommunication and networking equipment and spare parts to customers in various business sectors and industries worldwide.

Reducing the cost for maintenance and operation is one of the major challenges for telecom carriers, operators, ISPs and corporations. Telecom Easy not only helps you achieve the minimized cost of your projects, but also enables you to maximize the value of your networking system, through unique and diversified sourcing capacity to address your spare requirements.

We have access to an inventory of seven million (7 000 000) high quality telecommunication and networking equipment and spare parts. We also specialize in hard to find gears of various brands that no one else can locate in the market.

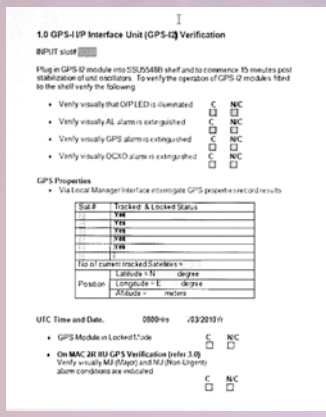


## Our services

### **Equipment sales**

Through the years, we have established a world-wide network of partners and built a professional team of experts. Hence, we are able to identify and to locate the scarcest equipment and modules that our customers often need in order to keep their network running.

We are dedicated to provide high quality gears to our customers. We ensure that each item is thoroughly tested and packed within standards to protect the equipment from physical damage during transit.



**Sample testing procedure and result documents**

## Test, refurbish & repair

We are bound to only provide quality services. Therefore, we make sure to use the original semiconductors and new electronic parts. Each and every single unit repaired is individually tested thoroughly and will carry Telecom Easy international warranty.

We manage diagnostic laboratory. We conduct test on all the potentially corrupted network devices, sorting out those that are actually damaged FF (Fault Found) from those that are not damaged NFF (No Fault Found) which can be reconnected to the network.

We provide comprehensive professional tests and diagnoses:

- NFF: "No Fault Found"
- FF: "Fault Found"

30-40% of the equipment sent to Repair Centre may not be damaged, so we include detailed equipment research for NFF to be certain if the unit is actually damaged.

Our day to day operations consist of offsite repair of NOKIA, ERICSSON and SIEMENS equipment. In particular we specialize in all components of cellular network base stations.

Telecom Easy offers repair services for items that cannot be replaced. Our repair services cover Microwave, SDH, GSM and many other types of equipment.



## **Recycling**

Telecom Easy provides test, refurbish and repair service, enabling us to utilize the telecommunication equipment and spare parts to its maximum value, thus reducing the electronic waste. We believe that one man's trash is another man's treasure. Embedded with this value, Telecom Easy aims to contribute to sustainable environment.

In the future, we plan to set up recycling center in Africa and South America to recycle and dispose e-waste, obliging to WEEE obligations. By doing so, we will help our customers reduce their carbon footprint through strategic recycling and responsible disposal of telecoms network e-waste.

# Industrial solution

## Telecommunication operators and carriers

With the flourishing and competition of the telecommunication operators and carriers, the cost control is becoming more and more important and crucial. Telecom Easy is positioned to minimize the sourcing cost and maximize the value of networking system through unique and diversified sourcing capacity.

We have established long term business relationship with several telecom operators and carriers. With the help of our global sourcing network, they can get brand new or refurbished equipment at a cheaper price within shorter time. Thanks to our inventory with large quantity and rich variety, we can address different kinds of needs from our customer.

We offer all types of GSM equipment and spare parts, including BTS, BSC, MSC for 2G and 3G networks; RRU, BBU, RNC for 4G and LTE networks. We hold equipment from popular manufacturers, for example Alcatel-Lucent, Ericsson, Huawei, Motorola, Nokia, Siemens, ZTE and so on.

## Internet Service Providers (ISP)

Telecom Easy supplies telecommunication equipment and spare parts to ISPs all over the world. As an alternative to traditional equipment suppliers, Telecom Easy provide equipment and spare parts using different technologies, including core network in PDH, SONET/SDH, CWDM, DWDM, and we provide backhauling equipment for long distance transmission, gateways and servers. We hold inventory of trending equipment model, like Alcatel 1660SM, OMS3500, OMS8800, OMS1694, Hit7070, Hit7075 and etc.

## Data centers

Data center networks are getting faster and smarter nowadays. Therefore, it has created a higher demand and standard on the data center infrastructure management. Telecom Easy helps data center by providing a large portfolio of layer-3 data routing equipment and data switching equipment for different budget and different purposes. We provide equipment and spare parts from trending manufacturers, including Alcatel, Cisco, Juniper, Extreme network, Ericsson and etc.



## **Oil and gas**

Microwave telecommunication technology plays a vital role in offshore industry work and rough terrain industry work. It enables the real-time transfer of data between offshore facilities and subsea wells in oil & gas industry.

Telecom Easy carries a variety of microwave equipment, including IDU, ODU, antenna, modems, multiplexer, and demultiplexer. Our trending microwave equipment includes Ericsson Minilink, NERA, Alcatel 9400, Huawei Optix Series, Siemens SRAL XD, SAIE and spare parts.

We issue a 1-year global warranty guarantee on the microwave equipment.

## **Electricity and water supply**

Telecom Easy provides telecommunication equipment and spare parts to electricity and water suppliers to fulfill their needs for live data, remote control and monitoring of inaccessible and rural environmental, and hydrometric monitoring stations and sites. Whether you are using GSM/GPRS, 3G or Radio Frequencies in your distribution system, we can source the telecommunication equipment and spare parts according to your needs in the most economical way, for example Loop Telecom Equipment, Siemens Simantic.

## **Aviation and airports**

Air-to-ground communication is facing a technological change in the past few years. Nowadays modern airplanes use satellite communication to talk with air traffic control, but not long time ago High Frequency Radio was the dominant technology used to communicate between aircraft and ATC.

In response to this change, Telecom Easy provides new surplus wireless equipment and spare parts that enables two-way communication among aircraft, different station, ground headquarter and control towers. In addition, our customer can maximize the value of decommissioned telecommunication equipment through our de-installation services.

Thales, NEC, Alcatel, Siemens offer an array of equipment for this sector.





## **Railways**

To fulfill the typical requirements of modern railway operators, Telecom Easy provides a large variety of telecommunication equipment and spare parts in the field of passenger wireless internet access, video surveillance, communication-based train control, voice communications and etc.

Seicom, Loop Telecom, Alcatel offer a variety of well-suited equipment to meet these needs.

## **Aerospace and defense**

Wireless technology is constantly evolving across the aerospace and defense industries over the last decade. The upgrades have been focused on secure data transmission, new waveforms and wide bandwidth signals, enabling increased data flow to the receiver. In response to the technology upgrade, Telecom Easy provides wireless equipment securing, monitoring, transferring data flow between troops.

Alcatel, Microsemi, Loop telecom have some specific equipment to satisfy the particular needs of the specific needs of this sector.

## **Maritime and submarine communication**

The vessel traffic systems (VTS) can be viewed as the marine equivalent version of air-traffic control. They operate as marine traffic monitoring and communications systems, providing navigational information and the tracking of vessel movements within the port limits. The size and complexity of these systems varies from port to port, depending on the geographical area of coverage required.

Telecom Easy provides telecommunication equipment and spare parts that can address all kinds of needs. Alcatel-Lucent, Huawei, Siemens DWDM equipment can be tailored to provide a solution to these requirements.



## **Satellite communication and research centers**

Satellite communication is often used by cable TV operators to deliver television signals to areas that are not serviced by terrestrial or cable providers. Telecom Easy provides a large range of products to address their needs, including CATV equipment supporting DOCSIS 3 technology (Data over Cable Service Interface Specification) and CMTS (Cable Modem Termination System) and other standards for coaxial cable delivered services from equipment manufacturers such as Cisco, Motorola, Arris and other global OEMs.

## **OEM manufacturers**

Telecom Easy is in business with telecommunication OEM manufacturers for many years. We have access to an inventory of seven million high quality networking equipment and spare parts. We also specialize in hard to find gears of various brands that no one else can locate in the market. Our advantage in inventory, price and lead time are the main reasons why OEM manufacturers turn to us in urgent cases.

## **Small, medium and large enterprises**

For customers from small, medium and large enterprises, Telecom Easy provides layer 2 & 3 routers and switches to create a LAN. We hold a large variety of different ADM, routing and switching equipment, for example Cisco 7200, Cisco 12000, Huawei S9700, Alcatel 1660SM, OMS3500, OMS8800, OMS1694, hiT7070, hiT7075 and etc.

# Our customers

## Europe

Ericsson  
 TELE Greenland  
 E.ON  
 TDC Group  
 Nokia Networks  
 Eniig  
 Broadband Systems



## Middle East

Saudi Telecom Company  
 Shabakkat  
 Qatar General Electricity  
 and Water Corporation  
 (Kahramaa)  
 DETASAD  
 Dolphin Energy  
 Gulf Bridge International  
 Golan Telecom



## Africa

MTN



## Asia

PLDT  
 Vas Aero  
 True Corporation  
 Tcell



## South America

Siemens  
 AXS Bolivia  
 Entel



# Trending products

## Routing and switching

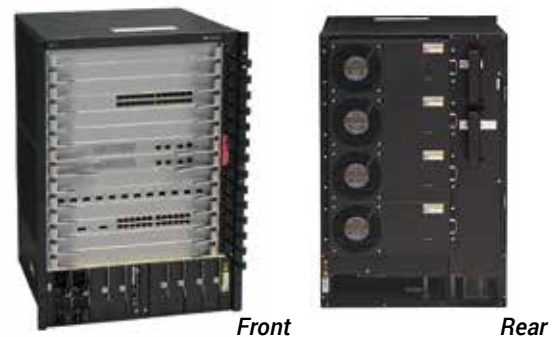
### Juniper MX480 router

The MX480 Universal Routing Platform is an Ethernet-optimized edge router that provides both switching and carrier-class Ethernet routing.



### Huawei S9700 Series

High-performance terabit switches for service aggregation in next-generation data centers, excellent core switches in large campus networks. S9700 switches become fully programmable agile switches with a Huawei agile card upgrade.



# Trending products

## Routing and switching

### Huawei NE Series

Highest performance routers to power innovative enterprise applications from small to super huge scale. Carrier-grade reliability, flexible modular architecture, and energy-efficient technologies add up to great service at lowest TCO.

The product line includes NE9000 Series, NE5000E Cluster, NE40E Series, NE20E Series and NE05E & NE08E Series.



NE05E-SF



NE08E-S6



NE05E-SE



NE05E-SG



NE05E-S2



NE05E-SH



NE05E-SI



NE05E-SN



NE05E-SJ



NE05E-SK

NE05E & NE08E



NE20E



# Trending products

## Routing and switching

NE20E



NE20E-X6-AC



NE20E-X6-DC

NE40E



NE5000E



NE9000



# Trending products

## AMD

### Alcatel-Lucent 1660SM

The Alcatel-Lucent 1660 Synchronous Multiplexer (SM) is the market-leading STM-64 multiservice provisioning platform (MSPP) for building next-generation multiservice SDH metro and regional transport networks.

### Alcatel 1830 PSS (Nokia 1830 PSS)

The Alcatel-Lucent 1830 Photonic Service Switch (PSS) represents a new breed of photonic switch for next generation metro and long-haul WDM.

Implementing Zero Touch Photonics, the Alcatel-Lucent 1830 PSS transforms traditional WDM into a fully flexible transport layer with complete optical layer visibility at the individual wavelength level, simplifying service delivery while reducing time-to-revenue generation and facilitating bandwidth expansion in metro networks for new broadband services.

### Huawei UMG8900

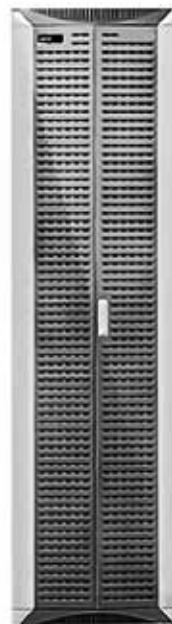
This Universal Media Gateway (UMG) helps migrate your GSM-R services from TDM to all-IP communications, reducing your overall costs and protecting your technology investments going forward. In addition, the simplified network structure supports video networking and signalling link gateways as well as enabling fast and flexible introduction of new services.

### Huawei MSOFTX3000

By supporting protocols and functions of both the GSM and the WCDMA, the MSOFTX3000 enables smooth evolution from the GSM to the WCDMA. The MSOFTX3000 can function as multiple network elements (NEs) such as the VMSC server/VLR, GMSC server, TMSC server, MSC/SSP, MGCF, and IM-SSF.

### Siemens hiT7070

The SURPASS hiT 7070, as well as all other members of the SURPASS hiT 70xx family, has been optimized for both packet and traditional TDM traffic. It uses the latest state-of-the-art technologies such as the ASTN architecture within the standard GMPLS control plane, thus preparing the carrier's network for the evolutionary step to a next generation optical network. The SURPASS hiT 7070 follows the Nokia Siemens Networks ASTN/GMPLS strategic evolution.



# Trending products

## 4G/LTE

### Ericsson RBS 6000 series

The RBS 6000 base station family is designed to meet the increasingly complex challenges facing operators today. RBS 6000 provides backwards-compatibility with the highly successful RBS 2000 and RBS 3000 product lines. RBS 6000 base stations offer a seamless, integrated and environmentally friendly solution and a safe, smart and sound roadmap for whatever tomorrow holds.

DU



RUS





# Trending products

4G/LTE

RBS



# Trending products

## 4G/LTE

### Nokia Flexi BTS

This multi-standard base station offers unique site benefits and paves a smooth path to LTE in both paired and unpaired spectrum. It takes efficient sites to keep pace with persistent mobile traffic growth. Mobile broadband has finally arrived with a compelling DSL-like user experience. This advanced hardware is ready for software upgrades to EDGE evolution, HSPA evolution, and LTE with common IP/Ethernet transport.



### Huawei DBS3900

Distributed Base Stations enable radio access for small to large eLTE wireless private networks that provide services such as video surveillance, data acquisition, and data transmission. The base stations' modular platform consists of a Base Band Unit (BBU3900) and Remote Radio Unit (RRU). Both components feature flexible installation, easy site deployment, low power consumption, and low TCO.



# Trending products

## 4G/LTE

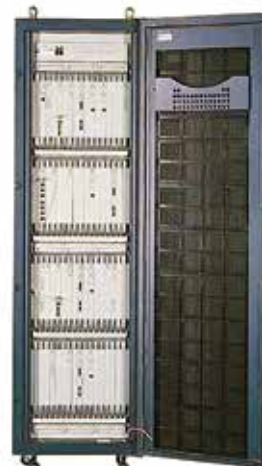
### ZTE ZXSDR

ZTE's LTE base stations portfolio is threatening to the competition. Across its family of products, ZTE can point to strong capacity performance, good scalability, and a multi-standard solution that includes not only GSM and WCDMA, but also CDMA2000. ZTE's current LTE solution set consists of three base stations, the ZXSDR BS8700, BS8800 and BS8906.



### ZTE ZXG10 iBSC

The ZXG10 iBSC, based on the all-IP hardware platform, is compatible with the ZXWR RNC (WCDMA) and ZXTR RNC (TD-SCDMA) in hardware architecture. It can be dual-rack mounted, supporting the industry's largest capacity of 3072 TRXs. Moreover, it supports smooth upgrade to future mobile technologies, enabling integration with AP controllers (RNC and UNC) into a universal physical NE compatible with a multitude of authorized radio access technologies such as GSM/EDGE/WCDMA/TD-SCDMA and unauthorized radio access technologies such as WiFi and WIMAX.



# Trending products

## Microwave

### Huawei OptiX RTN 900 Series

Flexible radio transmission equipment providing high-availability microwave links for TDM, IP-based, and hybrid networking. OptiX RTN 900 Series systems support voice transmission on 2G networks, voice and data services on 3G networks, and broadband data services on LTE networks.

#### RTN 905

The OptiX RTN 905 is a new generation integrated microwave transmission system developed by Huawei. It supports two radio links, and supports multiple protection schemes. The OptiX RTN 905 provides a generic platform for TDM/Hybrid/Packet/Routing microwave transmission. The OptiX RTN 905 is located at an access site to access multi-service microwave links or for large-capacity service backhaul.



#### RTN 910A

The OptiX RTN 910A provides a generic platform for TDM/Hybrid/Packet/Routing microwave transmission, meeting the backhaul requirements of various mobile networks. The OptiX RTN 910A is highly integrated microwave equipment, with one 1 U chassis supporting a maximum of six microwave links. The OptiX RTN 910A is mainly used at the access and aggregation layers. This solution is mainly used for base station service backhaul on 2G and 3G networks.



#### RTN 950/950A

The RTN 950/950A is the new-generation of IP radio transmission equipment developed by Huawei. The equipment, 2U high, supports a maximum of six RF directions. The equipment can be applied not only in the 3G/WiMAX/LTE backhaul but also in the radio access of private network services and private line services for VIP customers.



#### RTN 980/980L

The OptiX RTN 980/980L is a new generation integrated microwave transmission system developed by Huawei. It provides 14 slots to flexibly support multiple service boards and convergence of up to 20 radio directions. The OptiX RTN 980/980L is located at a node site to aggregate a large number of microwave links in multiple directions.



# Trending products

## Microwave

### NEC iPASOLINK Mobile Backhaul Solution

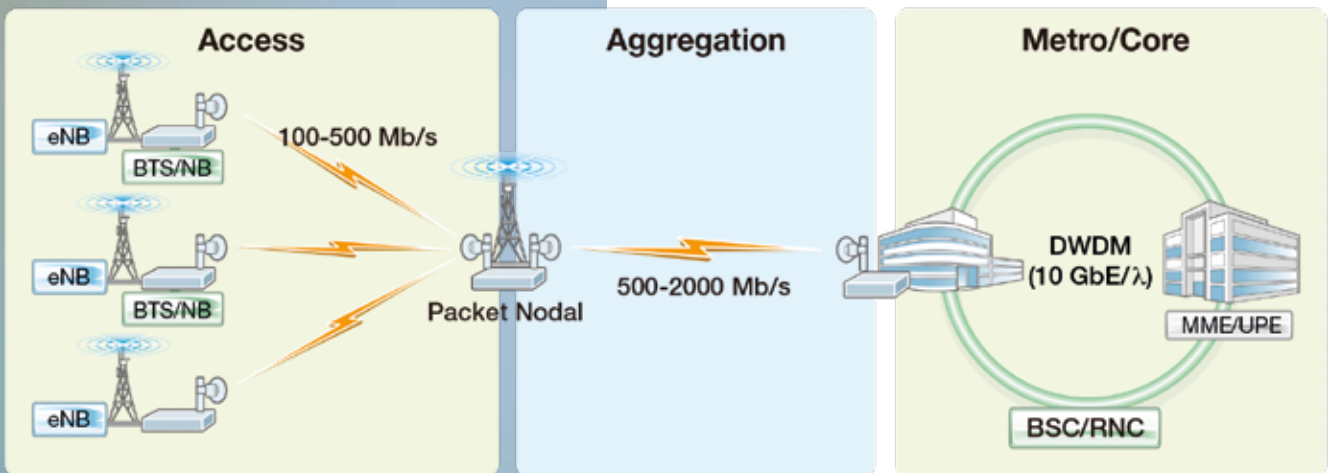
NEC's latest radio equipment supports high capacity microwave and high-speed interfaces suitable for the next wave of mobile services. A full lineup with options to cater to diverse requirements are available.

The short range and high capacity of E-band/V-band radios are suitable for high density and massive deployment. This unique characteristic is also a perfect match for security and disaster control solutions, making them key elements in social infrastructure.

### Outdoor Radio



### Application Network Sample



VR2



VR4



VR10



100E



400/400A



1000



100/200



400/400A

# Trending products

## Microwave

### ZTE Microwave Radio System

ZTE's new generation NR8000 series products - NR8120/ NR8120A/NR8120/NR8150/NR8250/NR8000 TR/NR8950/ are released for mobile backhaul, transport and enterprise network total solution.

#### NR8250

The ZXMW NR8250 provides a nodal microwave radio solution with hybrid and native transmission for high capacity transmission and aggregation node. It adopts split-mount architecture, including indoor unit (IDU) and outdoor unit (ODU). The ODU is waterproof and can be mounted with antenna in an integrated or separated way.



#### NR8950

NR8950 is an all IP based all outdoor microwave transmission system with zero footprint and high efficiency for 2G/3G/LTE backhaul network. It supports the configurable modulation range from QPSK to 2048 QAM and the single carrier transmission capacity up to 660 Mbps.



#### NR8961

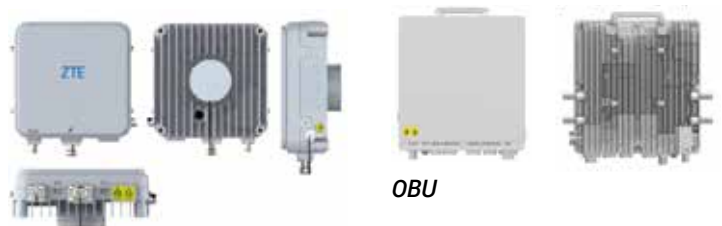
ZXMW NR8961 is an IP-based all outdoor microwave radio, which widely used for 3G, 4G LTE and even 5G IP backhaul network with the highlight of zero-footprint. The transmission capacity of NR8961 can reach up to 5 Gbps based on the industry leading techniques, such as 112MHz bandwidth, 4096QAM modulation scheme and MIMO. It also supports built-in Wi-Fi module, IP routing, MPLS and 10GE interface; hardware is prepared for SDN.

ZXMW NR8961 hardware structure is composed of OBU and ODU (SRU, SRU2, HRU).



*OUD HUR*

*OUD SRU*



*OBU*

*OUD SRU2*

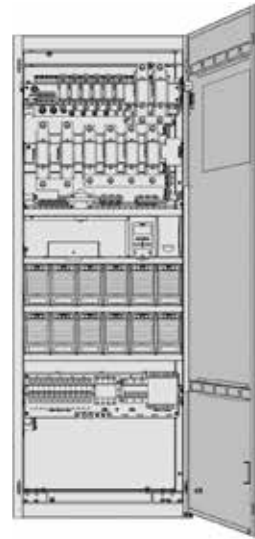
# Trending products

## Power generation

### ZTE ZXDU68 T601 DC Power System

ZXDU68 T601 is a high-efficiency DC power system developed by ZTE. The capacity of full configuration is 33 KW. The peak efficiency of the system is up to 96% and the power density is higher. The depth of the cabinet is only 400 mm and the front access design further reduces area occupation and space for maintenance. The maximum configured capacity is 600A with twelve 50A rectifier modules.

This system is smart and green with diversified types of interfaces, including input/output dry contacts, RJ45, RS232, RS485 interfaces, and a USB interface, which can perform flexible networking as per application scenarios.



### Emerson Network Power Telecom System Solutions

#### ACTURA® Optima 4845

Mini Power System

##### Key Benefits:

- Space efficient solution with all functions integrated on one shelf
- Robust and well proven design for tropical climates
  - Provides reliable DC supply



#### ACTURA® Flex 48701

Medium Power System

##### Key Benefits:

- Floorspace saving
- Large space for batteries in main cabinet giving long back-up time from a single rack



#### ACTURA® Flex 48800

Large Power System

##### Key Benefits:

- Footprint cost through high power density
- Low battery capacity needed thanks to non-priority load disconnect function
- Fewer site visits and related maintenance costs due to remote control and supervision
  - Easily expandable system



# Trending products

## Power generation

### Delta Telecom Power Systems

#### OutD M Series

OutD M series outdoor cabinets are user friendly. Many parts like door, back wall, side walls and roof can be opened, demounted or removed on site to make the installation of the customer equipment as easiest and as most comfortable as possible. Cabinet is designed with two types of cooling system: AV (air ventilation) and AV + A/C (hybrid: air ventilation + air conditioner).



#### Ultron EH Series, Three Phase UPS, 10kVA to 20kVA

The Ultron EH series is an online double-conversion 3p-1p UPS which provides reliable power protection for IT rooms, SMBs, telecommunications, banking, medical facilities and industry.

#### DPS 2900B-48-3 CellD 125

CellD 125 is the power system playing the leader role in wire and wireless network application, fixed line applications and transmission.

Relying on the advanced controller, flexible PDUs and outstanding rectifiers providing power for 48V system can reach each full potential in a compact 3U shelf.



#### DPS 2900B-48-6 19IN-6U CellD 300

This high power density system is ideal for space-critical applications. An integrated modular system allows flexible and adaptable installations. The system includes up to six rectifiers, AC and DC connections, battery connection and Delta PSC 3 controller.

#### DPR 2900B EnergE

DPR 2900B EnergE provides the industrial leading efficiency of 96.4%. Integrated with the high efficiency rectifier DPR 2900B EnergE, Delta power solution provides an energy saving solution for network base stations, wireless applications, fixed line applications and data communications.



### ELTEK Flatpack2

#### Integrated Power Supply System 150A – 600A

The combination of cost-effective design, power density and reliability makes the Flatpack2 a product family that truly stands out and provides unparalleled network availability. The versatility of the Flatpack2 rectifier means that it can be used in a wide variety of 48VDC and 24VDC applications across the globe.



#### Flatpack2 rectifier 48V/2000W

#### Flatpack2 rectifier 48/2000 HE

#### Flatpack2 rectifier 48V/3000W





# Trending products

## Fiber optic

### Fiber optic closure - dome type

For aerial and direct buried applications

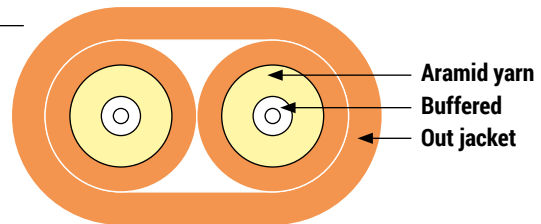


### Fiber optic cable (distribution-style) with pulling eye

Pulling eye kits protect pre-terminated fiber optic cables during installation conduits, ducts or risers.



### Optical fiber cable - 2F flat cable



Attenuation Specification (Unit: dB/km)

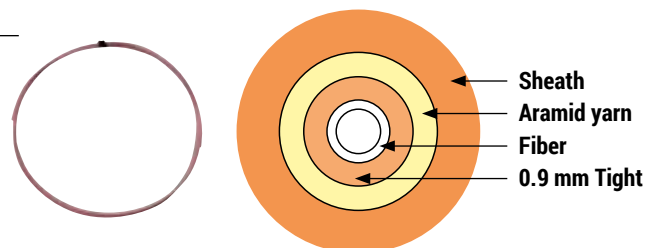
| Fiber Type        | Specification |
|-------------------|---------------|
| single mode fiber | 1310nm≤0.4    |
|                   | 1550nm≤0.3    |
| multimode fiber   | 850 nm≤3.5    |
|                   | 1300 nm≤1.5   |



### Package and shipping mark:

- White printing at out jacket of optical cable on each meter
- Standard length is 1KM, other length can be negotiated
- Can be packed in wooden drum or plywood drum

### 2.0 mm simplex optical cable



# Trending products

## Fiber optic

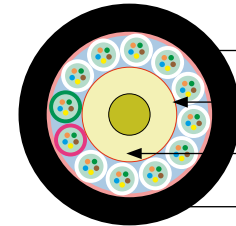
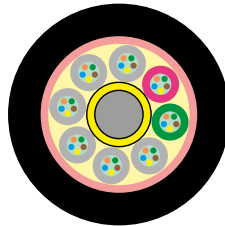
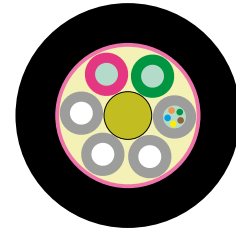
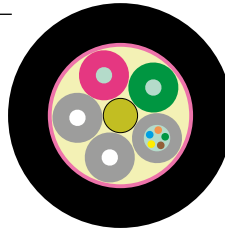
### Optical fiber cable



Attenuation Specification (Unit: dB/km)

| Fiber Type         | Specification |
|--------------------|---------------|
| max band 500 fiber | 850 nm ≤ 2.3  |
|                    | 1300 nm ≤ 0.6 |
| single mode fiber  | 1310 nm ≤ 0.4 |
|                    | 1550 nm ≤ 0.3 |
| multimode fiber    | 850 nm ≤ 3.5  |
|                    | 1300 nm ≤ 1.5 |

### Optical fiber cable - PE jacket



- PE out jacket
- Colored fiber
- FRP+ cushion
- Loose tube



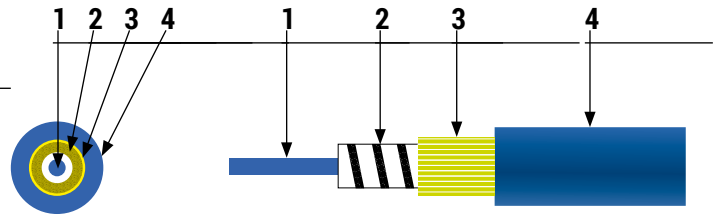
Attenuation Specification (Unit: dB/km)

| Fiber Type        | Specification |
|-------------------|---------------|
| single mode fiber | 1310nm ≤ 0.4  |
|                   | 1550nm ≤ 0.3  |
| multimode fiber   | 850 nm ≤ 3.0  |
|                   | 1300 nm ≤ 1.5 |

# Trending products

## Fiber optic

**3.0 armored cable, single core in one tube, with single armour**



| Cable structure | Material/model | Specification       |
|-----------------|----------------|---------------------|
| 1               | Optical Fiber  | OS1/OM1/OM2/OM3/OM4 |
| 2               | Metal Tube     | 200CU               |
| 3               | Kevlar         | DuPont              |
| 4               | Jacket         | PVC/LSZH            |

**Drawer style ODF unit- 48 unit/96unit**

The ODF unit is a necessary part of the indoor optical distribution frame.



**Fiber optical patch panel-rack mounted (24 fiber/96 fiber)**

Rack mounted patch panel is designed for fiber connection and distribution of backbone fiber cable. It is suitable for fiber splicing, storage and protection. The standard 19" width makes it compatible to standard optical distribution frame with 19" width. And it also can be used alone.





Telecom  
EASY

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