

DATA CENTER SOLUTIONS

LITECH provides a complete line of networking solutions for covering nearly every application for a new and existing data centre designs.

LITECH racking system provides effective management to consolidate all network equipments. Racks equipped with metered PDU and Environmental Monitoring System (EMS) offers a cost effective and efficient means to maintain accurate real-time views of voltage, current and power consumption. Other monitoring functions include temperature, humidity, smog and water logging and cabinet door sensor.



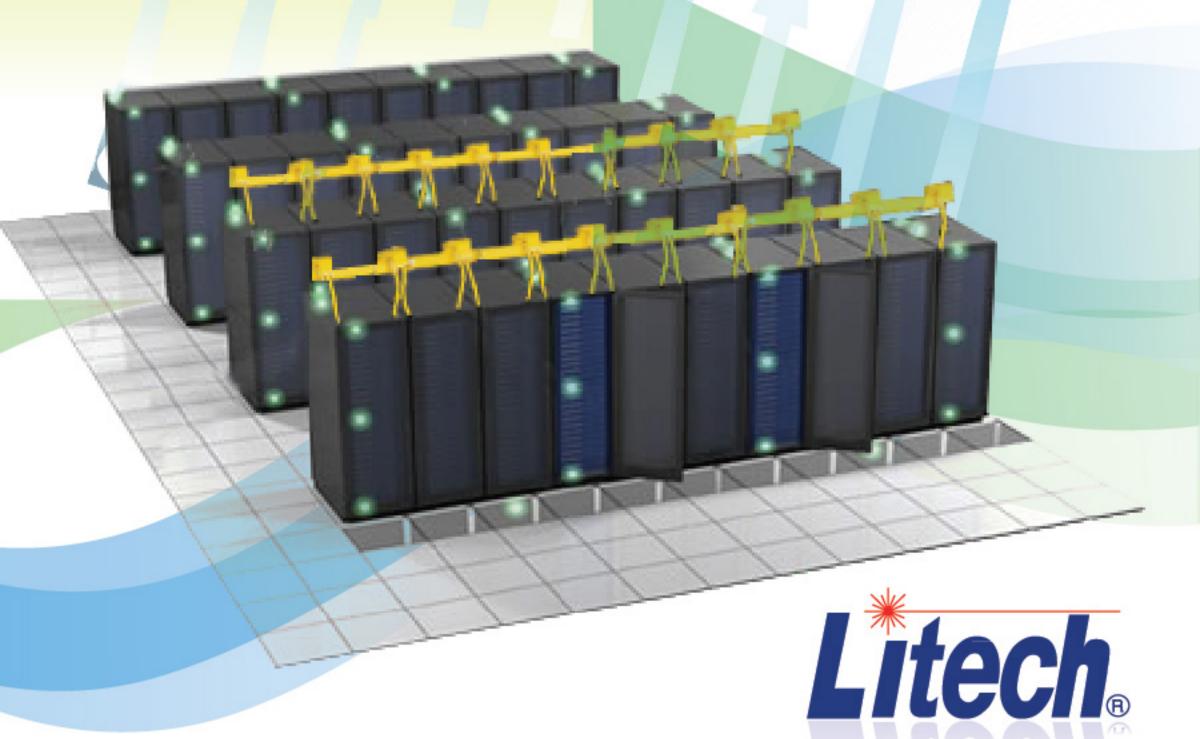








Cat5e & Cat 6 Solutions



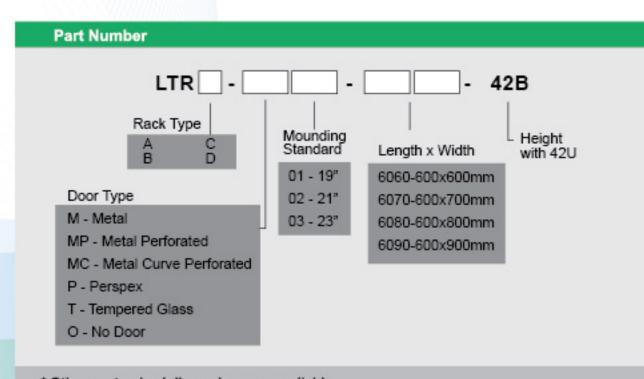


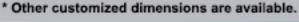
Data Center Rack

Litech® manufactures wide range of racks, cabinets, and enclosures to suit all telecommunication and data network equipment and cabling's requirement. With inhouse CAD/CAM design and CNC manufacturing facilities, Litech® has the ability to customize cabinets, racks, and panels with superior design and quality to address different and specified requirement for network installations. Litech® free standing equipment rack are design with high quality finishing and appearance to suit modern office environment as well as data centers.

Features

- Standard 19"/21"/23" mounting holes
- Various height, depth and width for different applications
- Adjustable mounting channels for different equipment depth mounting
- Lift off side panel with slam latches for easy removal and close of side panel
- 180° swing door for wider opening and easy access
- Vented roof & honey comb proforated door for better heat dissipatient
- High quality oven baked epoxy powder coated















LTRA LTRB

LTRC LTRD







Cable Management Rack

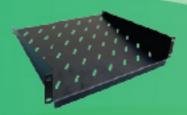
Litech® sturdy and versatile cable management rack is design to be used in modern day data centers and equipment rooms where high capasity of cable terminations and jumpering are required. The cabinet is fitted with front patchcord rounting channels for proper patch cables routing. The channels are designed with swing covers to protect and organize the patch cables, giving neat and presentable appearance

Part Number	Description	on	
CMR-XY-8080-42B	Close Cable Managen	nent Rack 42U, 800x800mm	
OMR-01-2040-42B	Open Cable Managem	nent Rack 42U, 800x400mm	
OMR-ACC-CG20-B	Side Cable Manageme	ent Guide For OMR Rack - 200mm width	
X - Door Type	M - Metal P - Perspex	MP - Metal Perforated MC - Metal Curve Perforated	T - Tempered Glass O - No Door
Y - Mounting Standard	01 - 19"	02 - 21"	03 - 23"

Accessories



Cable Management Guide LTSS-MG-01P



Cantilever Shelve LTR-ACC-CS



230V AC/48V DC Fan Tray LTR-ACC-FTRY



Blank Panel LTR-ACC-BP



Ventilation Fan LTR-CSM-FAN-AC/DC



Caged Nut LTR-CSM-CNUT-M6



Fixed Shelve LTR-ACC-ESF



Keyboard Tray LTR-ACC-KBT



Adjustable Feet LTR-CSM-ADJ



Sliding Shelve LTR-ACC-ESP



Power Points Strip LTR-ACC-PP



Castor Wheel LTR-CSM-CAST



19" Rack Panel Power Distribution Unit LTR-ACC-PDU















BS1363(90°)





BS1363(45°)









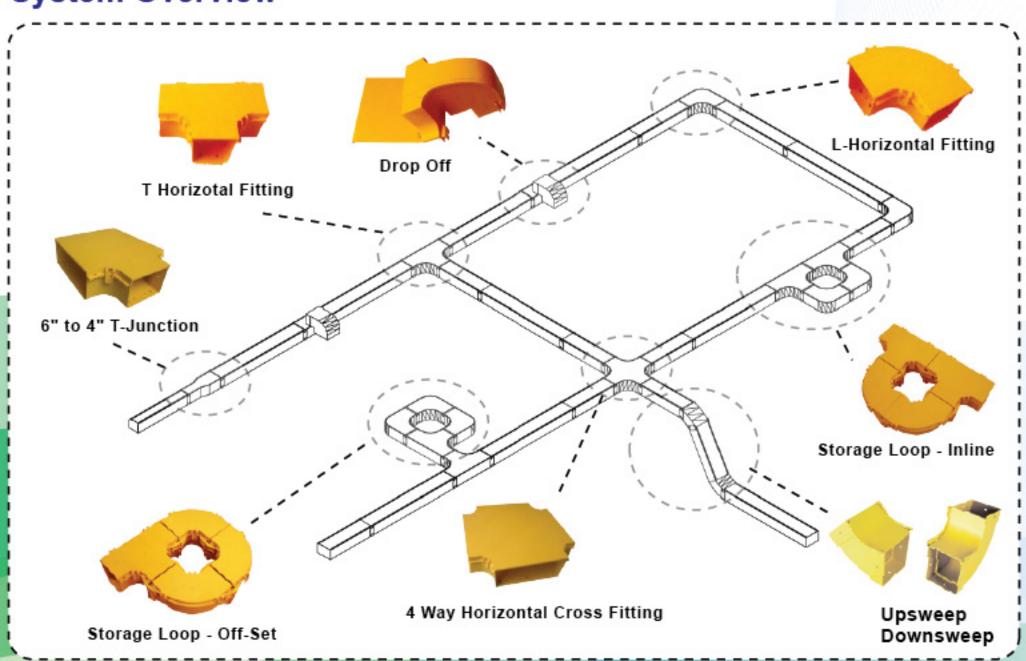


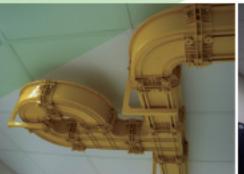
Litech® Opti-DUCT cable management system features innovative solutions for fiber optic cable and patchcords cabling between optical distribution frames and equipment racks in data centers equipment rooms. Opti-Duct systems features a snap-fit and modular systems to provide quick installation, easy access, and flexibility for moves, adds, changes of fiber optic cabling.

Features

- Easy installation
- All component ensure minimal bending radius of fiber
- Complete range of components available such as tee, elbows, junctions, adapters & etc
- All components are comes with cover for additional cable protection
- Snap-on features provides easy access for future cabling revision
- Complete range of fittings and brackets provide flexible for installation on ladder, equipment rack, walls or ceiling.
- Flame-retardant material (UL94-0)

System Overview













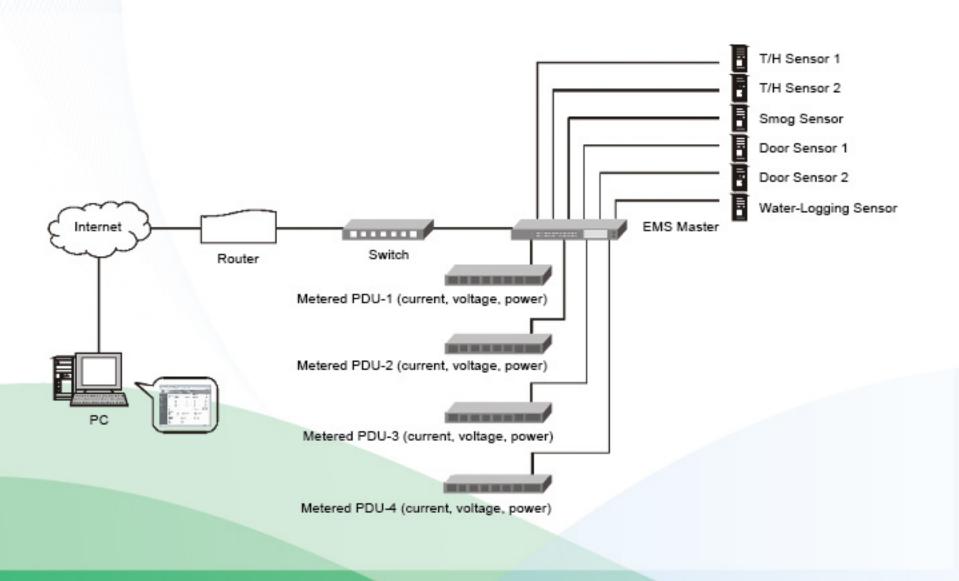


EMS

Environmental Management System



Litech® Environment Monitoring System - EMS is an intelligent remote monitoring system that combines the software technique of embedded system whole solution, long-distance monitoring technique based on SNMP, network node technique of sensors, power distribution technique and modularized structure technique and other advanced techniques to timely monitor the micro environment in one or several cabinets



Specification

- Composition of EMS: master, slave, HUB and Metered PDU.
- Technical: remote monitoring system center on one cabinet.
- Cabinet unit: one cabinet as a unit.
- Basic configuration in a cabinet: Maximum 4 Metered PDU, 2 T/H sensor, 2 door sensor, 1 smog sensor and 1 water-logging sensor.
- Micro environment of cabinet: input voltage, load current and power consumption of Metered PDU; temperature, humidity, door, smog and water-logging state in cabinet.
- Main applications: EMS can be widely used to data centers, telecom, finance, electric power, network system, information processing and other fields for remote monitoring.

EMS

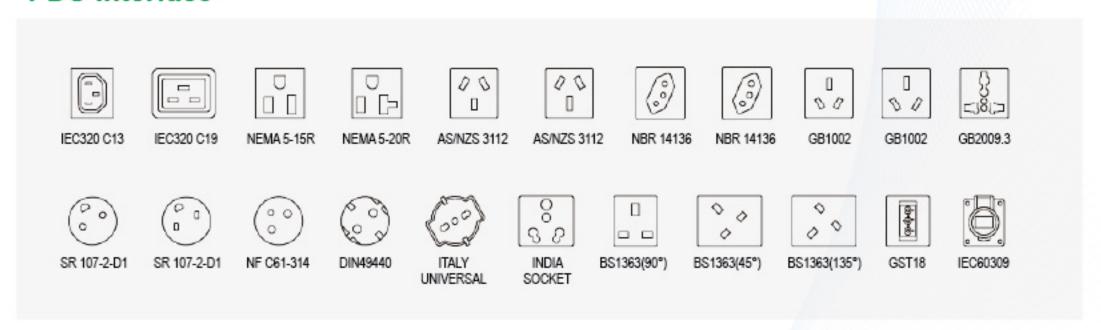




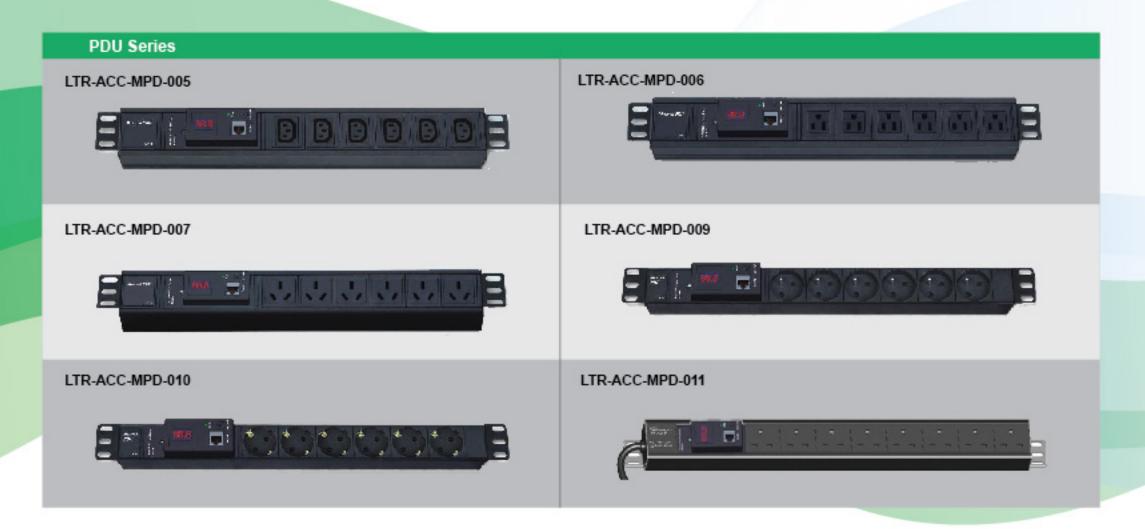
Features

- Able to monitor via internet the input voltage, load current and power consumption of all the Meter PDU in one or several cabinets; and temperature/humidity, smog, door and water-logging states around the cabinets.
- 2 Daisy-chain: Trough HUB, one EMS master can daisy-chain 11 EMS slaves at most.
- 3 When overloaded, limited range exceeded or some other abnormal situation appears, EMS will send alarm signal.
- Alarm information can be saved and retrieved from log record.
- Able to classify and set user access. User can manage one or several cabinets according to the access granted

PDU Interface



Metered PDU Ranges





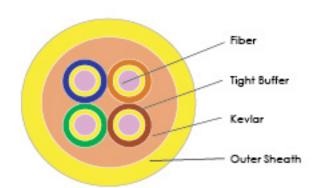
Fiber Optic Solutions

Indoor Distribution Cable



Litech® offers full range of fiber optic cables for different applications and environments: singlemode and multimode, indoor and outdoor.

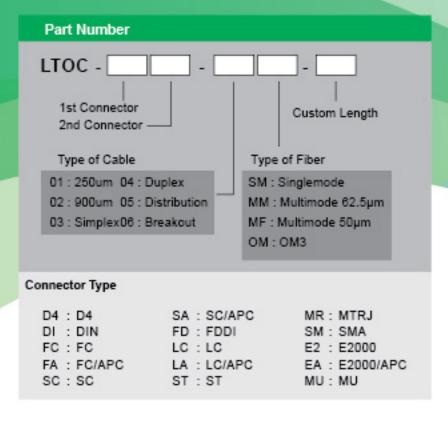
Structure and Material S	pecification	
Tight Buffered	Diameter	0.9mm
Armoured Layer	Material	KEVLAR
Sheath	Material	PVC
	Thickness	1.0mm
Mechanical / Electrical /	Environment Character	istics
ensile	Short Term Long Term	600N 450N
rush	200N10cm	
ending Radius	Installing Installed	30* Cable Dia ≥ 10* Cable Dia
ther Mechanical haracteristics	Correspond to IEC Pu	blication
sulating Resistance Sheath	≥ 2000M after 24hs wa	ater immersion
Vater Penetration	Correspond to IEC 794	4-1-F5
emperature	-40~+70°C Additional of 0.05db/km	dispersion



Part Number		Fiber Count
LTOC-CB-XX05-04		4
LTOC-CB-XX05-06		6
LTOC-CB-XX05-08		8
LTOC-CB-XX05-10		10
LTOC-CB-XX05-12		12
* XX - Type of Fiber -	MM:M	nglemode ultimode 62.5µm ultimode 50µm M3 Multimode 50µm

Fiber Optic Patchcords

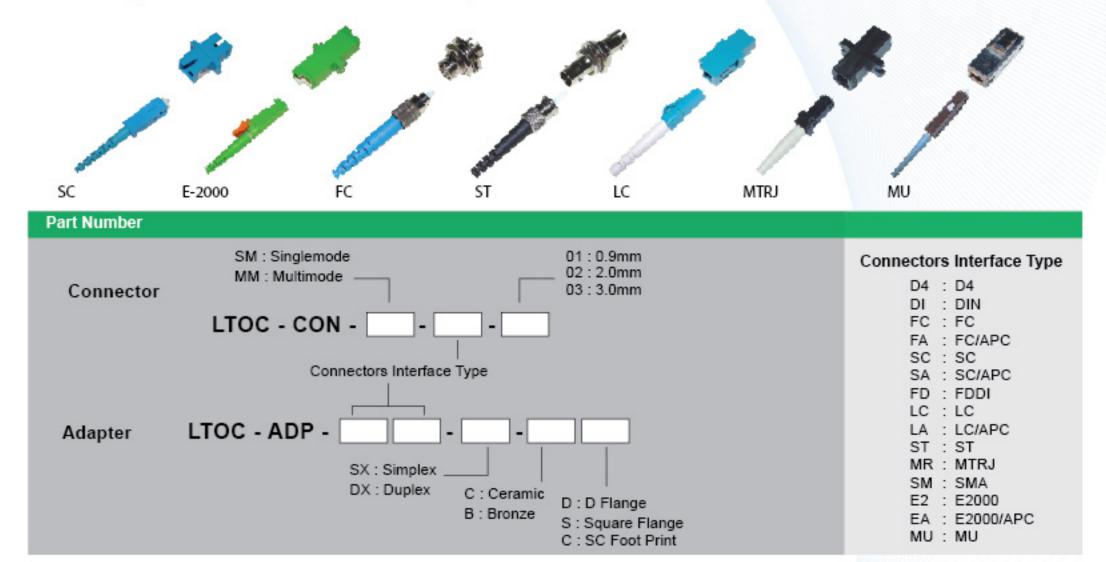
Litech® patchcords are made with quality manufacturing technologies with low attenuation and low back reflection. All of Litech® patchcords gone through testing in strict accordance with the international standards.







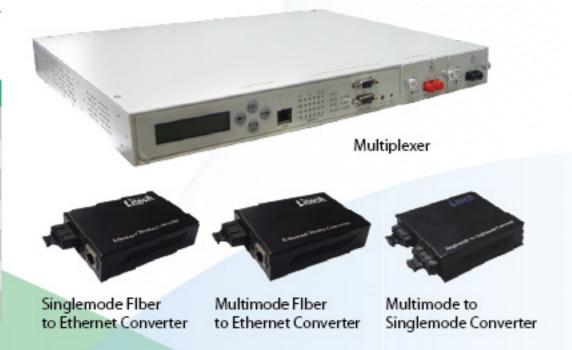
Fiber Optic Connectors and Adapters



Fiber Optic Converters

Litech® offers wide range of fiber media converters for conversion between fiber to twisted pair and vice versa.

Part Number	Description
LTCV-10/100M-SC02	10/100 Base-TX to Fiber Converter, SC, MM-2km
LTCV-10/100S-SC25	10/100 Base-TX to Fiber Converter, SC, SM-25km
LTCV-10/100S-SC40	10/100 Base-TX to Fiber Converter, SC, SM-40km
LTCV-10/100/1000M-SC.22	10/100/1000 Base-TX to Fiber Converter, SC, MM-220m
LTCV-10/100/1000S-SC20	10/100/1000 Base-TX to Fiber Converter, SC, SM-20km
LTCV-SMMM-SC20	100 Base-FX SC MM(2km) to SM(20km) Converter, SC
LTCV-FOM-4E1	Fiber Optic Multiplexer, 4E1





Fiber Management System

Litech® design and manufacture full range of fiber management system, for small fiber count fiber panels in customer premises to large capacity fiber management racks in data centers.

Part Number	Description
LTOC-RFPP-12-B	RFPP Rack Mount Fiber Dist Panel 12 Core
LTOC-RFPP-24-B	RFPP Rack Mount Fiber Dist Panel 24 Core
* Other fiber count management panels are available.	



Cat 5e & Cat 6 Solutions

Data Cables

Litech® offer wide range of premium data cables for all communication needs. Litech® cables are make comply with TIA/EIA 568A & ISO/IEC 11801 standards which provide matched performance for Cat5E and Cat6.

Specification

UL verified to TIA/EIA 568A & ISO/IEC 11801

Conductor: Solid or Stranded Copper

Insulation : Colour-coded PE

Jacket: PVC or LSOH

Flammability Grade : CMX, CM, MP, CMR, MPR

Rated Temperature : 60°C

Reelex pull out box packing available

Part Number	Description
LTSS-CU5E-25	UTP Category 5E - 25 pair
LTSS-CU5E-04	UTP Category 5E - 4 pair
LTSS-FT5E-04	FTP Category 5E - 4 Pair
LTSS-ST5E-04	SFTP Category 5E - 4 Pair
LTSS-CUC6-04	UTP Category 6 - 4 pair
LTSS-FTC6-04	FTP Category 6 - 4 Pair
LTSS-STC6-04	SFTP Category 6 - 4 Pair





RJ45 Patchcords

Litech® RJ45 Patchcords provide optimum performance in interfacing equipment, maintaining the data rates and signal integrity of today's high speed networks. All patchcord are made with quality RJ45 Plug, fully moulded boots for excellent strain relief. Litech® Modular Plug are designed to accommodate solid or standards cables. These high performance plugs are coated with gold plating and exceed TIA/EIA performance requirements.

Part Number	Description
LTSS-PC5E-UXX-YY	UTP Cat 5E - Patchcord
LTSS-PC5E-FXX-YY	FTP Cat 5E- Patchcord
LTSS-PCC6-UXX-YY	UTP Cat 6 - Patchcord
LTSS-PCC6-FXX-YY	FTP Cat 6 - Patchcord
XX - Colour Boots YY - Cable Length	White (W1), Grey (G2), Red (R3), Yellow (Y4), Green (E5), Blue (B6), Black (K7) 0.5m (05), 1.0m (10), 1.5m(15), 2.0m (20), 3.0m (30), 4.0m (40)



RJ45 Patch Panels

Litech® offers complete range of patch panels to suit unshielded and shielded cable applications.



Patch Panel (Unshielded)



Specification

Dielectric Strength: 1kV RMS at 60Hz for 1 minute

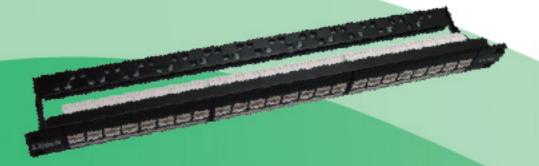
Current Rating : 1.5Amp maximum
 Insulation Resistance : 200MΩ minimum
 Contact Resistance : 1mΩ per contact

Durability: 200 cycles

Temperature Range : -40°C to +70°C

Transmission Performance: exceeds ISO/IEC11801 Class E & AS/NZs 3080:2003 Class E

Part Number	Description
LTSS-PP5E-U24-B	Cat 5E 24 Port UTP Patch Panel - Unshielded
LTSS-PP5E-U48-B	Cat 5E 48 Port UTP Patch Panel - Unshielded
LTSS-PP5E-S24	Cat 5E 24 Port UTP Patch Panel - Shielded
LTSS-PPC6-U24-B	Cat 6 24 Port UTP Patch Panel - Unshielded
LTSS-PPC6-U48-B	Cat 6 48 Port UTP Patch Panel - Unshielded
LTSS-PPC6-S24	Cat 6 24 Port UTP Patch Panel - Shielded

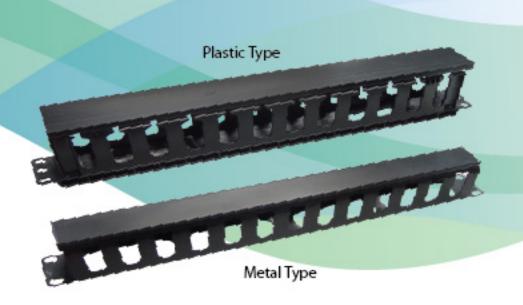


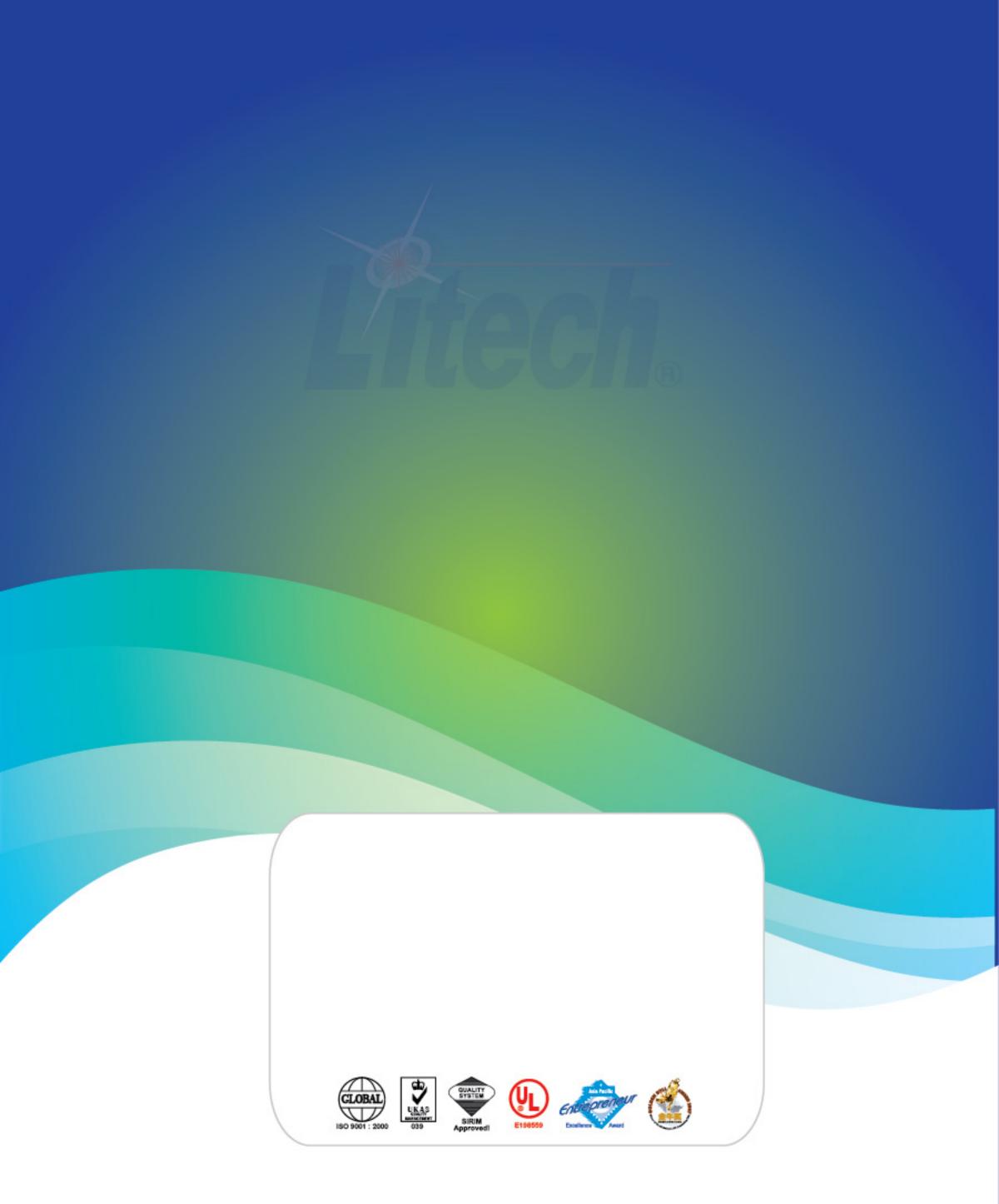
Inline Patch Panel

Part Number	Description
LTSS-IP5E-24	Cat 5e 24 Port UTP Inline Patch Panel
LTSS-IPC6-24	Cat 6 24 Port UTP Inline Patch Panel

Horizontal Cable Management Guide

ı	Part Number	Description
	LTSS-MG-01P	Cable Management Guide 1U (Plastic Type)
	LTSS-MG-01M	Cable Management Guide 1U (Metal Type)
	LTSS-MG-02M	Cable Management Guide 2U (Metal Type)





TOTAL TELECOMMUNICATION & NETWORKING SOLUTIONS