

LCSI

Industrial & Optical Ethernet

Industrial-Grade Ethernet: Switch, PoE Switch, Media Converter, Device Server
Commercial-Grade Ethernet: Media Converter, PoE Switch

Product Guide

www.lcsi.com.tw

About LCSI

Based in Taiwan, LCSI develops, markets, and supports highly reliable industrial and optical Ethernet products. Products are available through value-added distributor (VAD) and systems integrators (SI) or resellers throughout the world.

Industrial Ethernet product for harsh and industrial environments has grown dramatically in the last few years due to its durability. To meet this level of durability, Industrial Ethernet products(also called rugged or hardened) are designed and manufactured with special components, connectors and circuitry to ensure reliable operation in wide temperature swings, electromagnetic interference (EMI), radio interference, vibrations, or moisture and humidity fluctuations. In addition to hardware features, software features have redundant, ultra-fast network recovery topology beyond commercial grade.

LCSI products are manufactured in professional contract manufacturing facilities and meet ROHS, ISO9001/2000 and ISO 14001. Industrial-grade products carry a 5 year limited warranty, Commercial-grade products carry a 2 year limited warranty, and Accessories carry a 1 year limited warranty from the date of delivery, given that products are installed and used properly. Resell products are subject to their manufacturer's warranties. All charges shall be billed for repairs outside of the respective warranty period.

| | |
|---------------------|------------------------------------------------------------------------------|
| Industrial Ethernet | Managed Switch, POE Switch, Unmanaged Switch, Media Converter, Device Server |
| Commercial Ethernet | Media Converter, POE Switch |
| Accessories | 100M and 1000M Mini-GBIC(SFP), Din-Rail Power Supply |



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Product Applications

Industrial Ethernet

- **Transportation**

Traffic Information systems, Video Surveillance, Toll Collection, Data Logging, Signalization, Ticketing, etc.. (Highway, Tunnel, Urban Traffic, Railway, Airport, Seaport, Subway)

- **Security and Surveillance (Outdoor or Harsh Environment)**

Area Monitoring, Access Control, Video Surveillance of Public, Government, Industrial, Factory, Transportation, City Center

- **Building Automation**

Energy Management Systems, Facility Monitoring and Control Systems (HVAC / Lighting Controls), and Video Surveillance for Security systems

- **Industrial Control and Factory Automation**

Infrastructure network for Device Network, Production Network, Robot and Machine, Video Surveillance

- **Power Utility**

Infrastructure network for controlling power generation, transmission, substation, distribution, video surveillance

- **Military**

Battle Field, Board Patrol, Video Surveillance

- **Telecom**

Critical Network, Outside Plant

- **Outdoor, Harsh, or Critical Environment**

Commercial Ethernet

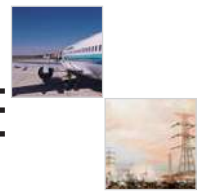
- **Media Conversion**

Extend Network Distance, Provide a link between two different media types, Integrate high-bandwidth devices into the network.

- **Power Over Ethernet (Benign Environment)**

Enables enterprises to provide power to network devices over the existing data connection.

Industrial Managed Switches and POE

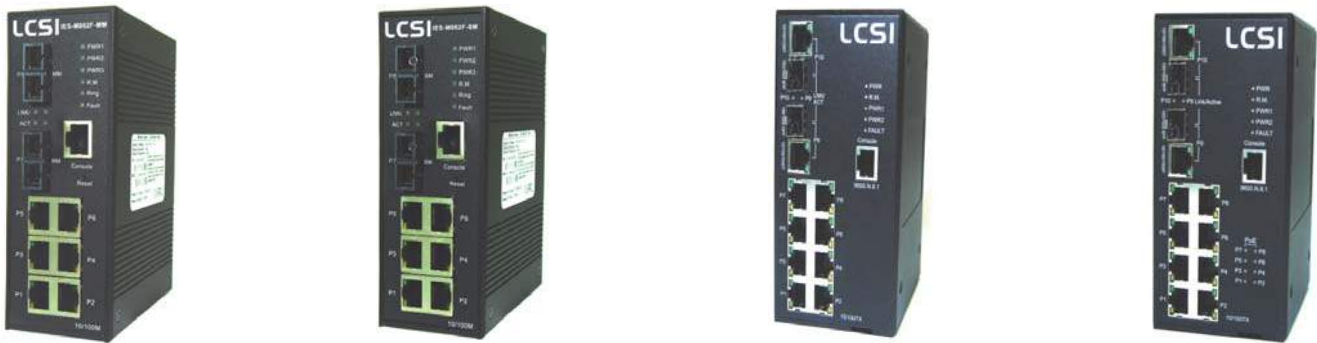


Introduction

Industrial Managed Switches and POE are designed to provide powerful functionality in a small package to operate in transportation, security and surveillance, building automation, industrial control and factory automation, Military, telecom, outdoor, harsh, or critical environments with IP 30 enclosure and has been tested under extensive Industrial EMI and Safety standards.

X-Ring, dual homing, couple ring, dual ring, and central ring can be used to configure a network with redundant recovery time less than 20ms. Dual power inputs ensure reliability. A relay alarm outputs for port failure notification. DIN Rail and Wall Mounting option are on the same IP 30 enclosure. High density port models are available in 19" rack mount. Industrial managed switch's relay contact to Alarm system can immediately alert user to power failure or /and port down events and send a warning message to pre-defined email address.

The management functions include Management(SNMP, Web, Telnet, CLI, and Window Utility), Control(Port Based VLAN, 802.1Q Tag VLAN, GVRP, QoS, IGMP, LACP, Rate Limit), Security(IP/MAC & Port Binding, DHCP Server/Client , IP Access List, 802.1X, SNMP V3), Diagnostics(Port Statistics, Port Mirroring, RMON, Trap, E-Mail Alert, Syslog), Redundant recovery (X-Ring, STP, RSTP), SNTP and SMTP.



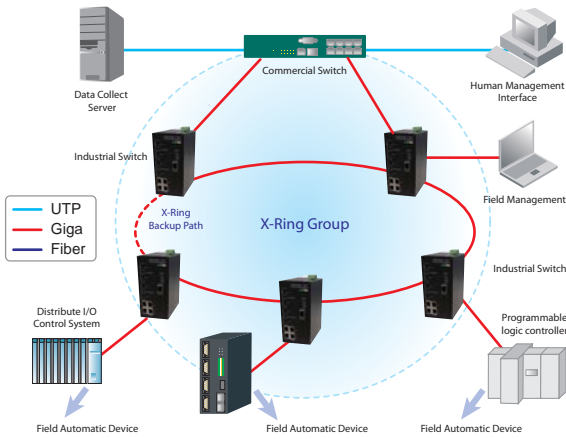
Model name (Redundant Ring at 20 ms)

| Model No. | Total Ports | 10/100TX | 10/100/1000TX | Multi-mode | Single-mode | SFP | Temperature | Power Input |
|---------------------|-------------|----------|---------------|------------|-------------|--------------|-------------|--------------|
| IES-M062F-MM | 8 | 6 | | 2(2km) | | | -10~60C | 2*(12-48VDC) |
| IES-M062F-SM | 8 | 6 | | | 2(30km) | | -10~60C | 2*(12-48VDC) |
| IES-M082C | 10 | 8 | (2) | | | (2)*100/1000 | -10~60C | 2*(12-48VDC) |
| IES-M082CE | 10 | 8 | (2) | | | (2)*100/1000 | -40~75C | 2*(12-48VDC) |
| IES-M162CE | 18 | 16 | (2) | | | (2)*100/1000 | -40~75C | 2*(12-48VDC) |
| IES-M242CE | 26 | 24 | (2) | | | (2)*1000 | -40~75C | 2*(12-48VDC) |
| IGS-M062C | 8 | | 6+(2) | | | (2)*100/1000 | -10~60C | 2*(12-48VDC) |
| IGS-M044GB | 8 | | 4 | | | 4* 100/1000 | -10~60C | 2*(12-48VDC) |
| IGS-M044GBE | 8 | | 4 | | | 4*100/1000 | -40~75C | 2*(12-48VDC) |
| IESP-M082C | 10 | 8(POE) | (2) | | | (2)*100/1000 | -10~60C | 2*48VDC |
| IESP-M082CE | 10 | 8(POE) | (2) | | | (2)*100/1000 | -40~75C | 2*48VDC |
| IESP-M242C | 26 | 24(POE) | (2) | | | (2)*1000 | -10~60C | 2*48VDC |

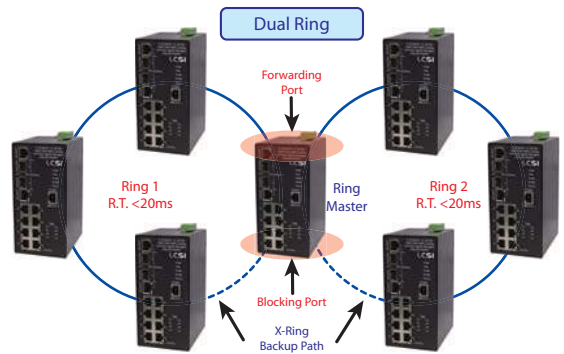
(port#) indicates the port is a combination port, which means the copper media is shared with the SFP slot. Once the SFP slot is filled with an SFP module, the copper port is disabled.

Redundant Ring Topologies

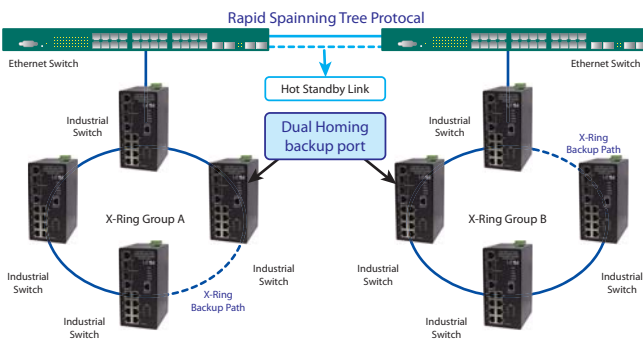
X-Ring



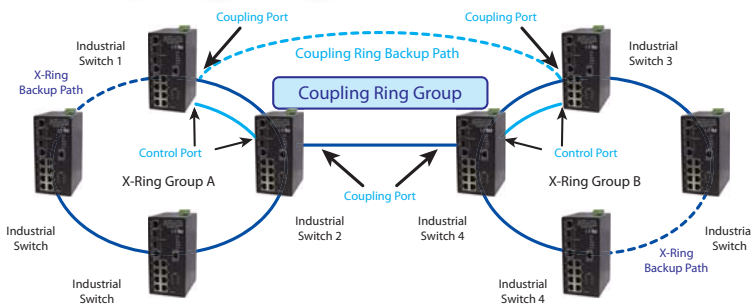
Dual Ring



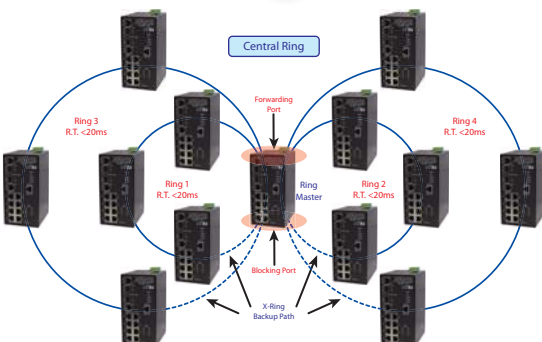
Dual Homing



Coupling Ring






Central Ring






Note: All topologies are applied to all industrial managed switches and POE except that Central Ring is only available in IES-M162C/E model


Industrial Managed Switches

| Model Name | IES-M062F-MM or SM | IES-M082C/E | IES-M162CE |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Product Photo |  |  |  |
| Description | (Port #) indicates the port is a combination port, which means the copper media is shared with the SFP slot. Once the SFP slot is filled with an SFP module, the copper port is disabled | | |
| Total Ports | 8 | 10 | 18 |
| -10/100TX | 6 | 8 | 16 |
| -10/100/1000TX | | (2) | (2) |
| -100 Base-FX | 2* MM(2km) or SM(30km) | | |
| - 1000M or 100/1000 M SFP | | (2)* 100/1000 SFP | (2)* 100/1000 SFP |
| Power Redundancy | Y | Y | Y |
| -DC Terminal Block | 2*(12-48VDC) | 2*(12-48VDC) | 2*(12-48VDC) |
| -DC Power Jack | 1 | | |
| -AC Power | | | |
| Din-Rail/Panel/Rack Mount | Din-Rail/Panel | Din-Rail/Panel | Din-Rail/Panel |
| Enclosure Protection | IP 30 | IP 30 | IP 30 |
| Temperature N: -10~60C, E: -40~75C | N | N,E | E |
| Fault Relay Output | Y | Y | Y |
| Network Redundancy | Y | Y | Y |
| -Proprietary X-Ring configuration | 20ms | 20ms | 20ms |
| -STP/RSTP(802.1 D &W) | Y | Y | Y |
| IGMP Snoopy & Query | V1/V2/V3 | V1/V2 | V1/V2 |
| 802.1X | Y | Y | Y |
| Rate Limit | Y | Y | Y |
| Port Mirror | Y | Y | Y |
| Port Security | Y | Y | Y |
| QoS(Port/COS/TOS) | Y | Y | Y |
| SNMP V1/V2C/V3 | Y | Y | Y |
| RMON 1(Statistics, Alarm, Events, History) | Y | Y | Y |
| Port Trunk Static/LACP | Y | Y | Y |
| LLDP(Link Layer Discovery Protocol) | Y | Y | Y |
| VLAN (Port Base/802.1Q/GVRP) | Y | Y | Y |
| DHCP (Server or Client) | Y | Y | Y |
| Management | Web/SNMPV1/V2c/V3/Telnet /CLI | | |
| System Alarm | Syslog /SMTP /SNMP Trap/ Relay | | |
| EMI,EMS.Safety,Shock,Vibration, Free Fall | Yes (Datasheet for Details) | | |
| Product Dimension(mm) (W)x(D)x(H) | 52 x 106 x 144 | 72 x 105 x 152 | 72 x 105 x 152 |
| Packaged Dimension(mm) | 185x204x90 | 305x170x90 | 305x170x90 |
| Packaged Weight(kg) | 1.15 | 1.3 | 1.45 |

Industrial Managed Switches

| Model Name | IGS-M062C | IGS-M044GB/E | IES-M242CE |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Product Photo |  |  |  |
| Description | (Port #) indicates the port is a combination port, which means the copper media is shared with the SFP slot. Once the SFP slot is filled with an SPF module, the copper port is disabled | | |
| Total Ports | 8 | 8 | 26 |
| -10/100TX | | | 24 |
| -10/100/1000TX | 6 | 4 | (2) |
| -100 Base-FX | | | |
| - 1000M or 100/1000 M SFP | | 4* 100/1000 SFP | (2)* 1000 SFP |
| Power Redundancy | Y | Y | Y |
| -DC Terminal Block | 2*(12-48VDC) | 2*(12-48VDC) | 2*(12-48VDC) |
| -DC Power Jack | | | |
| -AC Power | | | |
| Din-Rail/Panel/19" Rack Mount | Din-Rail/Panel | Din-Rail/Panel | 19" Rackmount |
| Enclosure Protection | IP 30 | IP 30 | IP 30 |
| Temperature N: -10~60C, E: -40~75C | N | N(Now) ,E(Late Q2,2009) | E(Q2,2009) |
| Fault Relay Output | Y | Y | Y |
| Network Redundancy | Y | Y | Y |
| -Proprietary X-Ring configuration | 20ms | 20ms | 20ms |
| -STP/RSTP(802.1 D &W) | Y | Y | Y |
| IGMP Snoopy & Query | V1/V2 | V1/V2 | V1/V2 |
| 802.1X | Y | Y | Y |
| Rate Limit | Y | Y | Y |
| Port Mirror | Y | Y | Y |
| Port Security | Y | Y | Y |
| QoS(Port/COS/TOS) | Y | Y | Y |
| SNMP V1/V2C/V3 | Y | Y | Y |
| RMON 1(Statistics, Alarm, Events, History) | Y | Y | Y |
| Port Trunk Static/LACP | Y | Y | Y |
| LLDP(Link Layer Discovery Protocol) | Y | Y | Y |
| VLAN (Port Base/802.1Q/GVRP) | Y | Y | Y |
| DHCP (Server or Client) | Y | Y | Y |
| Management | Web/SNMPV1/V2c/V3/Telnet /CLI | | |
| System Alarm | Syslog /SMTP /SNMP Trap/ Relay | | |
| EMI,EMS.Safety,Shock,Vibration, Free Fall | Yes (Datasheet for Details) | | |
| Product Dimension(W)x(D)x(H) | 72 x 105 x 152 | 72 x 105 x 152 | 440 x 280 x 44 |
| Packaged Dimension(mm) | 305x170x90 | 305x170x90 | 575x450x125 |
| Packaged Weight(kg) | 1.4 | 1.3 | 4.8 |

Industrial Managed POE Switches

| Model Name | IESP-M082C | IESP-M082CE | IESP-M242C |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Product Photo |  |  |  |
| Description | (Port #) indicates the port is a combination port, which means the copper media is shared with the SFP slot. Once the SFP slot is filled with an SFP module, the copper port is disabled | | |
| Total Ports | 10 | 8 | 26 |
| -10/100TX | 8(POE) | 8(POE) | 24(POE) |
| -10/100/1000TX | (2) | (2) | (2) |
| -100 Base-FX | | | |
| - 1000M or 100/1000 M SFP | (2)* 100/1000 SFP | (2)* 100/1000 SFP | (2)* 1000 SFP |
| Power Redundancy | Y | Y | Y |
| -DC Terminal Block | 2*48VDC | 2*48VDC | 2*48VDC |
| -DC Power Jack | | | |
| -AC Power | | | |
| Din-Rail/Panel/19" Rack Mount | Din-Rail/Panel | Din-Rail/Panel | 19" Rackmount |
| Enclosure Protection | IP 30 | IP 30 | IP 30 |
| Temperature N: -10~60C, E: -40~75C | N | E | N |
| Fault Relay Output | Y | Y | Y |
| Network Redundancy | Y | Y | Y |
| -Proprietary X-Ring configuration | 20ms | 20ms | 20ms |
| -STP/RSTP(802.1 D &W) | Y | Y | Y |
| IGMP Snoopy & Query | V1/V2 | V1/V2 | V1/V2 |
| 802.1X | Y | Y | Y |
| Rate Limit | Y | Y | Y |
| Port Mirror | Y | Y | Y |
| Port Security | Y | Y | Y |
| QoS(Port/COS/TOS) | Y | Y | Y |
| SNMP V1/V2C/V3 | Y | Y | Y |
| RMON 1(Statistics, Alarm, Events, History) | Y | Y | Y |
| Port Trunk Static/LACP | Y | Y | Y |
| LLDP(Link Layer Discovery Protocol) | Y | Y | Y |
| VLAN (Port Base/802.1Q/GVRP) | Y | Y | Y |
| DHCP (Server or Client) | Y | Y | Y |
| Management | Web/SNMPV1/V2c/V3/Telnet /CLI | | |
| System Alarm | Syslog /SMTP /SNMP Trap/ Relay | | |
| EMI,EMS.Safety,Shock,Vibration, Free Fall | Yes (Datasheet for Details) | | |
| Product Dimension(W)x(D)x(H) | 72 x 105 x 152 | 72 x 105 x 152 | 440 x 280 x 44 |
| Packaged Dimension(mm) | 305x170x90 | 305x170x90 | 575x450x125 |
| Packaged Weight(kg) | 1.4 | 1.4 | 4.8 |

Industrial Unmanaged Switches and POE

Introduction

Industrial unmanaged Ethernet Switches and POE are plug-and-play installation. Switches route data flow to a specific device.

With a compact case, LEDs for power and monitoring, wide power input with removable terminal blocks, auto-negotiation of speed, full-duplex and auto-cross, the unmanaged switches and POE are perfect for any application that doesn't require management features. Common features include broadcast storm protection, store and forward mechanism, and back-pressure / IEEE 802.3x flow control

- Wide-range redundant power design (DC12V~48V)
- Store-and-Forward switching architecture
- Easy configuration design
- IEEE 802.3x flow control support
- -10~60°C for standard models and -40~75°C for E models
- Unmanaged POE switch are available in 5 and 10-port models



Model name

| Model No. | Total Ports | 10/100 | 10/100/1000 | Multi-mode | Single-mode | SFP | Temperature | Power Input |
|----------------|-------------|-----------|-------------|------------|-------------|-----|-------------|--------------|
| IES-U080T | 8 | 8 | | | | | -10~60C | 2*(12-48VDC) |
| IES-U062F-MM | 8 | 6 | | 2(2km) | | | -10~60C | 2*(12-48VDC) |
| IES-U062F-SM | 8 | 6 | | | 2(30km) | | -10~60C | 2*(12-48VDC) |
| IES-U041FT-MM | 5 | 4 | | 1(2km) | | | -10~60C | 1*(12-48VDC) |
| IES-U041FT-SM | 5 | 4 | | | 1(30km) | | -10~60C | 1*(12-48VDC) |
| IES-U041FTE-MM | 5 | 4 | | 1(2km) | | | -40~75C | 2*(12-48VDC) |
| IES-U041FTE-SM | 5 | 4 | | | 1(30km) | | -40~75C | 2*(12-48VDC) |
| IESP-U041T | 5 | 4*(POE)+1 | | | | | -10~60C | 2*48VDC |
| IESP-U041TE | 5 | 4*(POE)+1 | | | | | -40~75C | 2*48VDC |
| IESP-U082C | 10 | 8*(POE) | (2) | | | (2) | -10~60C | 2*48VDC |
| IESP-U082CE | 10 | 8*(POE) | (2) | | | (2) | -40~75C | 2*48VDC |

(port#) indicates the port is a combination port, which means the copper media is shared with the SFP slot. Once the SFP slot is filled with an SFP module, the copper port is disabled.

Industrial Media Converters

Introduction

Industrial Media Converters are cost-effective solution for converting 10/100Base-TX (Auto MDI/MDIX) to 100Base-FX, and 10/100/1000T to Mini-GBIC(SFP). They provide two power inputs that can be connected simultaneously to DC power sources. If one power input fails, Industrial Media Converter will switch automatically to the secondary power input.

Industrial Media Converter also provides relay alarm outputs to alert port link failures, so the technician can respond quickly with appropriate emergency operation procedures. Also, there are DIP- switches to set the operation mode for relay alarm, Fiber ports, link loss forwarding function, and UTP operation mode.

- DC power detection from 12V to 48V
- -10~60°C operation temperature for standard models
- -40~75°C operation temperature for E models
- Relay alarm output for port link failure



Model name

| Model No. | Total Ports | 10/100 | 10/100/1000 | Multi-mode | Single-mode | SFP | Temperature | Power Input |
|---------------|-------------|--------|-------------|------------|-------------|-----|-------------|--------------|
| IGC-U011GB | 2 | | 1 | | | 1 | -10~60C | 2*(12-48VDC) |
| IGC-U011GBE | 2 | | 1 | | | 1 | -40~75C | 2*(12-48VDC) |
| IEC-0101FT-MM | 2 | 1 | | 1(2km) | | | -10~60C | 1*(12-48VDC) |
| IEC-0101FT-SM | 2 | 1 | | | 1(30km) | | -10~60C | 1*(12-48VDC) |
| IEC-0101FN-MM | 2 | 1 | | 1(2km) | | | -40~75C | 2*(12-48VDC) |
| IEC-0101FN-SM | 2 | 1 | | | 1(30km) | | -40~75C | 2*(12-48VDC) |

(port#) indicates the port is a combination port, which means the copper media is shared with the SFP slot. Once the SFP slot is filled with an SFP module, the copper port is disabled.

Industrial Device Servers

Introduction

IDS-S012/IDS-S011F are able to convert RS-232/422/485 to Ethernet connection where user can remotely manage and configure device servers via Internet and is designed with redundant Ethernet port to protect network connection. The HTTPS and SSH function can ensure the access security. Unique "DS-Tool" Windows utility is able to discover, configure and manage single or multiple device servers simultaneously. SNTP and SMTP can automatically alert events to predefined email addresses. The versatile serial operation modes like Virtual Com, TCP Host and Client, UDP Host/Client are applicable in POS, Card Reader, Medical Instrument, Power Utility and PLC Automation applications.



- DS-Tool Windows utility for Auto device discovery, device setting and monitoring
- Max series speed up to 460.8Kbps
- Versatile serial operation options: Virtual Com, Serial tunnel, TCP Server, TCP Client, UDP
- Configuration by Windows, Web, Telnet
- Security: HTTPS and SSH
- Event warning by Syslog, E-mail, SNMP Trap, and Beeper
- DS-Tool trigger beeper for location
- Virtual COM driver for Windows NT/2000/XP/2003
- Dual Power Inputs by 1* DC 12V~48V Terminal Block and 1* DC Jack



IDS-S011F
1x RS-232/422/485 ports to
1x 100FX Ethernet Device Server



IDS-S012
1x RS-232/422/485 ports to
2x 10/100TX Ethernet Device Server

Device Server Service Mode

Medical-Measure Management Application

Service Mode: TCP Client

Improve quality of patient care
allow patients' heartbeat, blood pressure..etc.
to be viewed in real-time

Energy/Utilities Management

Service Mode: UDP

Connect With RTU (Remote Terminal Unit) to monitor
and control power distribution, resulting in maximum
power utilization Remote detection of power drain to
balance power usage.

Traffic Control Management Application

Service Mode: Virtual COM

Monitor accuracy of traffic status and allow
better control management of traffic flow

Retail /POS Application

Service Mode: TCP Client

Collecting sales data from each store for centralized
Inventory control management

Industrial Process Control

Service Mode: TCP Server

Managed and Configure PLC control function to drive the
I/O devices process

Entrance Security Application

Service Mode: TCP Client

Managed and keeping the attendance record

Commercial Media Converters

Introduction

Fiber media converters connect standard optical interfaces with electrical interfaces; links single mode fibers with multimode fiber cables; adapts dissimilar data rates. They are important in interconnecting fiber optic cabling-based systems with existing copper-based, structured cabling systems. Wavelength Division Multiplexing (WDM) technology in the LAN is especially beneficial in situations where fiber is in limited supply or expensive to provision.

Fast and Gigabit Media Converter.

- Support 10/100 and 1000(Gigabit) Ethernet
- Extend Ethernet Distance up to 100km
- SFP module model available
- Works with Multi-Mode or Single-Mode fiber
- Multi Ethernet port models available
- Double bandwidth by WDM models w. single-strand technologies
- 19" rackmount chassis available for IT room

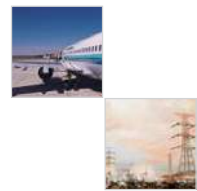


Model name

| Model No. | Total Ports | 10/100 | 10/100/1000 | Multi-mode | Single-mode | SFP | Temperature |
|------------------------|---------------------------------------------------------------------|--------|-------------|------------|-------------|-----------------------|-------------|
| CGC-U011GB | 2 | | 1 | | | 1 | 0~65C |
| CGC-U011C | 2 | | (1) | | | (1)+1 | 0~65C |
| CGC-U011C100 | 3 | | (1) | | | (1) + 1* 1000 + 1*100 | 0~65C |
| CMC-U011F/SC-MM | 2 | 1 | | 1* SC | | | 0~45C |
| CMC-U011F/ST-MM | 2 | 1 | | 1* ST | | | 0~45C |
| CMC-U011F/SC-SM | 2 | 1 | | | 1* SC | | 0~45C |
| CMC-U011F/SC-SM | 2 | 1 | | | 1* ST | | 0~45C |
| CMC-U011B (WDM) | 2 | 1 | | | 1 | | 0~45C |
| Chassis Rack | 19" 16-slot Media Converter Chassis Rack for Redundant Power Supply | | | | | | |

(port#) indicates the port is a combination port, which means the copper media is shared with the SFP slot. Once the SFP slot is filled with an SFP module, the copper port is disabled.

Commercial POE Switches



Introduction

Power over Ethernet or POE technology transfers electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. This technology is useful for powering IP telephones, wireless LAN access points, network cameras, remote network switches, embedded computers, and other appliances where it would be inconvenient, expensive, or infeasible to supply power separately. The technology is somewhat comparable to POTS telephones, which also receive power and data (although analog) through the same cable. It doesn't require modification of existing Ethernet cabling infrastructure.

IEEE 802.3af compliant power sources supply 48 volts DC to devices at a maximum current of 350 mA. This allows devices to draw about 15.4 watts. A twisted-pair Ethernet wire contains four pairs. The Ethernet protocol only uses two of these pairs for data. The 802.3af standard allows power transmission over the two unused pairs, or the two data pairs. To prevent damage to devices that don't accept power over Ethernet, an 802.3af power source won't begin sending power until a remote device acknowledges that it can accept power.

LCSI provide full series of commercial-grade managed, smart, and unmanaged POE Ethernet switches which comply with IEEE 802.3af standard with a selection of 4-port to 24-port POE switches and SFP fiber options.



Model name

| Model No. | Description |
|-------------------|----------------------------------------------------------------------------------------------|
| BESP-584 | 8-port 10/100TX Desktop PoE Fast Ethernet Switch w/4 PoE Ports, 0~60C |
| BESP-588 | 8-port 10/100TX Desktop PoE Fast Ethernet Switch w/8 PoE Ports, 0~60C |
| BESP-7616 | 16-port 10/100TX Rack-Mount PoE Fast Ethernet Switch w/16 PoE Ports, 0~60C |
| BESP-584W | 8-port 10/100TX Desktop PoE Web Smart Fast Ethernet Switch w/4 PoE Ports, 0~60C |
| BESP-588W | 8-port 10/100TX Desktop PoE Web Smart Fast Ethernet Switch w/8 PoE Ports, 0~60C |
| BESP-7616W | 16-port 10/100TX Rack-Mount PoE Web Smart Fast Ethernet Switch w/16 PoE Ports, 0~60C |
| BESP-7242W | 26-port: 24* 10/100TX w/POE + 2 Giga Copper/SFP Web Smart POE switch Rack-Mount, 0~60C |
| BESP-M242C | 26-port: 24* 10/100TX w/POE + 2 Giga Copper/SFP SNMP Managed POE switch Rack-Mount, 0~45C |
| BEP-508 | 8-pair Port Desktop PoE Mid-span Power Supply , 0~60C, 11-inch metal case and rack-mountable |
| BEP-7008 | 8-pair Port Rack-mount PoE Mid-span Power Supply , 0~60C |
| BEP-7016 | 16-pair Port Rack-mount PoE Mid-span Power Supply , 0~60C |



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