

## Mini Industrial 10/100/1000Base-T to 1000Base-X Media Converter

### Features

- ▶ 1-Port 10/100/1000BASE-T RJ45 with auto MDI / MDI-X function
- ▶ 1 SC Port, 1000Base-X
- ▶ Supports Full/Half-duplex, Auto-negotiation
- ▶ IEEE 802.3az Energy Efficient Ethernet (EEE)
- ▶ Extensive LED indicators for network diagnostics
- ▶ 12~48VDC Terminal Block Power Input
- ▶ Supports DIN-Rail & Wall-mount installation
- ▶ Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature



### Overview

The LNK-IMC3012 Series provides media conversion between 10/100/1000BASE-T and 1000BASE-X Fiber. It's a hardened product with wide operating temperature range from -40°C to 75°C, and ruggedized aluminum housing. The Ethernet port supports both half-duplex and full-duplex mode. The rugged hardware design ensures that your Ethernet equipment can withstand demanding industrial conditions. The LNK-IMC3012 Series are easy to mount on a DIN rail or in distribution boxes. This media converter supports both 100M and 1000M on fiber port, that makes it compatible with more devices.

### Application



## Technical Indexes

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| <b>Ethernet</b>                      |                                              |
| Standards:                           | IEEE802.3 10Base-T                           |
|                                      | IEEE802.3u 100Base-TX                        |
|                                      | IEEE802.3ab 1000Base-T                       |
|                                      | IEEE802.3z 1000Base-X                        |
|                                      | IEEE 802.3az Energy Efficient Ethernet (EEE) |
| Processing Type:                     | Store-and-Forward                            |
| Forward Filter Rate:                 | 14,880pps (10Mbps)                           |
|                                      | 148,800pps (100Mbps)                         |
|                                      | 1,488,000pps (1000Mbps)                      |
| Packet Buffer Memory:                | 1 Mbit                                       |
| Max Packet Length:                   | 9K Bytes                                     |
| Address Table Size                   | 2K MAC Addresses                             |
| <b>Interface</b>                     |                                              |
| Connector:                           | 1x RJ45                                      |
| Optical Port:                        | 1 x SC 1000Base-X                            |
| <b>Electrical and Mechanical</b>     |                                              |
| Input Power:                         | 12~48VDC, 2-pin terminal block               |
| Power Consumption:                   | 3W Max.                                      |
| LED Indicators:                      |                                              |
| PWR:                                 | Power Status                                 |
| L/A:                                 | Data LINK Status                             |
| SPD:                                 | Ethernet Status                              |
| 100M/1000M:                          | Fiber LINK Status                            |
| Dimensions (WxDxH):                  | 95 x 70 x 30 mm                              |
| Weight:                              | 0.25Kg                                       |
| Casing:                              | Aluminum Case                                |
| Mounting Options:                    | DIN-Rail / Wall-mount                        |
| <b>Environmental</b>                 |                                              |
| Operating Temperature:               | -40°C to 75°C (-40°F to 167°F)               |
| Storage Temperature:                 | -40°C to 85°C (-40°F to 185°F)               |
| Relative Humidity:                   | 5% to 95% non-condensing                     |
| MTBF                                 | > 200,000 hrs                                |
| <b>Regulatory Approvals</b>          |                                              |
| ISO9001, CE, FCC, RoHS               |                                              |
| EMI:                                 |                                              |
| EN55022:2010+AC: 2011, Class A       |                                              |
| EN 61000-3-2: 2006+A1: 2009+A2: 2009 |                                              |
| EN 61000-3-3: 2013                   |                                              |
| EN55024: 2010                        |                                              |

**EMS:**

IEC 61000-4-2: 2008 (ESD)  
 IEC 61000-4-3: 2010 (RS)  
 IEC 61000-4-4: 2012 (EFT)  
 IEC 61000-4-5: 2014 (Surge)  
 IEC 61000-4-6: 2013 (CS)  
 IEC 61000-4-8: 2009 (PFMF)

## Ordering Information

| Model            | Description                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------------------|
| LNK-IMC3012      | Mini Industrial Media Converter, 10/100/1000Base-T to 1000Base-SX, <b>Multi-mode, 550m, 850nm, SC</b>                      |
| LNK-IMC3012-20   | Mini Industrial Media Converter, 10/100/1000Base-T to 1000Base-LX, <b>Single-mode, 20km, 1310nm, SC</b>                    |
| LNK-IMC3012-S20  | Mini Industrial Media Converter, 10/100/1000Base-T to 1000Base-BX, <b>Single-mode, Single Fiber, 20km, 1310/1550nm, SC</b> |
| Mounting Options | ► Default DIN-Rail Bracket installed; Wall Mount Bracket is included.                                                      |
| Power Options    | ► 24W/1A 24VDC Power Supply. Open Wire for Terminal Block                                                                  |
|                  | ► Power Supply is to be purchased separately.                                                                              |