

# OGEC-100C

1 GbE RJ45 to 1000Base-X SFP/1000Base-SX/1000Base-LX



- 1 Giga TX and 1 Giga FX/SX/LX
- Layer 2 Line speed switching fabric, non-blocking
- Auto-MDI/MDIX on copper port
- 9K Jumbo Frame Size
- Fixed Full-Duplex on Fiber
- Plug and Play, no configuration required
- Hot Swappable



## General Description

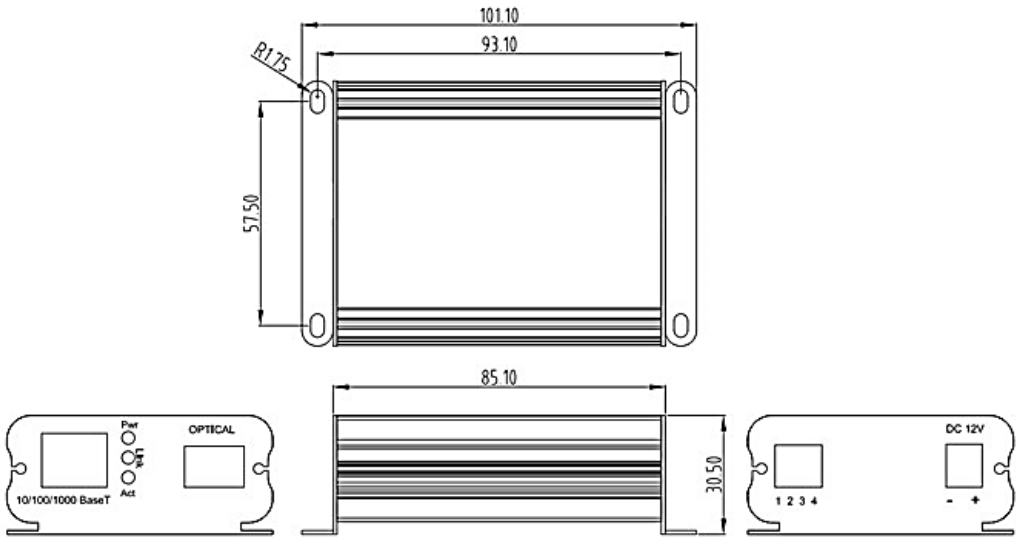
Meet the OGEC-100C series – your passport to a faster, more reliable network. These non-managed stand-alone media converters offer 10/100/1000Base-T to 1000Base-X/1000BaseSX/LX connectivity, extending your network reach with gigabit speed. Compact yet powerful, OGEC-100C not only boosts server speed but also brings Gigabit to your desktop/wall mount. What makes OGEC-100C exceptional? Each model undergoes a 100% burn-in test, guaranteeing top-notch performance. Plus, it thrives in temperatures from 0 - 40°C to 75°C, offering reliability in diverse conditions. Elevate your network – choose OGEC-100C series for high-performance connectivity.

## Specifications

|                       |                         |                                                                                                                                                                                                     |
|-----------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard              |                         | IEEE 802.3 10Base-T Ethernet<br>IEEE 802.3u 100Base-TX Fast Ethernet<br>IEEE 802.3ab 1000Base-T Gigabit Ethernet<br>IEEE 802.3z 1000Base-X Gigabit Ethernet<br>IEEE802.3x traffic and back pressure |
| LAN                   |                         | 10/100/1000Base-T(X)                                                                                                                                                                                |
| Jumbo Frame Size      |                         | 9Kbytes                                                                                                                                                                                             |
| Transmission Distance | Ethernet                | 100m                                                                                                                                                                                                |
| Transmission Speed    | Ethernet                | 10/100/1000Mbps                                                                                                                                                                                     |
|                       | Fiber                   | 1000Mbps                                                                                                                                                                                            |
| Optical Fiber         | Multi-mode 1000Base-SX  | Wavelength: 1310nm<br>Tx Power: -11/-3dBm<br>Rx Sensitivity: <-22dBm<br>Parameters: 50/125µm, 62.5/125µm<br>Transmission Distance: 500m                                                             |
|                       | Single mode 1000Base-LX | Wavelength: 1310nm<br>Tx Power: -10/-3dBm<br>Rx Sensitivity: <-22dBm<br>Parameters: 9/125µm<br>Transmission Distance: 10km                                                                          |
|                       | SFP                     | Depends on the choice of SFP fiber transceiver                                                                                                                                                      |
| Auto MDI/MDIX         |                         | Yes (automatic detection of straight or crossover twisted pair cables)                                                                                                                              |
| Connectors            |                         | 1 x RJ-45<br>1 x SFP slot or 1-port 1000Base LX/SX                                                                                                                                                  |
| LED Indicators        |                         | Power: Pwr<br>Fiber: Link<br>Ethernet: Act                                                                                                                                                          |
| Power Input           |                         | Unit accepts 12 to 24VDC (External power supply)                                                                                                                                                    |
| Power Consumption     |                         | 6W                                                                                                                                                                                                  |
| Dimensions (WxDxH)    |                         | 68 x 100 x 30.5 mm                                                                                                                                                                                  |
| Weight                |                         | 80g                                                                                                                                                                                                 |
| Enclosure             |                         | Aluminum metal shell                                                                                                                                                                                |

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| Installation          | Wall/Desktop                                                                                           |
| Power Reverse         | Support                                                                                                |
| Overload Current      | Support                                                                                                |
| Operating temperature | -40 °C ~ 75°C                                                                                          |
| Storage temperature   | -40 °C ~ 85°C                                                                                          |
| Operating humidity    | 5 ~ 95% (Non-condensing)                                                                               |
| Storage humidity      | 0 ~ 95% (Non-condensing)                                                                               |
| MTBF                  | >50000 Hours                                                                                           |
| EMC                   | CE                                                                                                     |
| EMI                   | FCC Part 15 Subpart B Class A                                                                          |
| EMS                   | EN61000-4-2<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-6<br>EN61000-4-8<br>EN61000-4-11 |
| RoHS                  | Yes                                                                                                    |

**Dimension Diagram** (Unit : mm)



**Ordering Information**

| Model Name      | RJ45 UTP<br>10/100/1000<br>Base-T | Fiber<br>1000Base-X | Fiber<br>1000Base-LX | Fiber<br>1000Base-SX | Power Input | Operating<br>Temp. |
|-----------------|-----------------------------------|---------------------|----------------------|----------------------|-------------|--------------------|
| OGEC-100C-SFP   | 1                                 | 1 SFP Slot          |                      |                      | 12/24VDC    | -40~ 75°C          |
| OGEC-100C-SM-SC | 1                                 |                     | SC                   |                      | 12/24VDC    |                    |
| OGEC-100C-MM-SC | 1                                 |                     |                      | SC                   | 12/24VDC    |                    |

**Package List**

- OGEC-100C
- Quick Instruction Guide

## Accessories (sold separately)

### ■ Fiber Patch Cord

| Model Name                               | Description                            |
|------------------------------------------|----------------------------------------|
| SC-M/SC-M OPTICAL FIBER 3M SM 0dB        | 3M Single Mode Simplex SC/SC Connector |
| SC-M/SC-M OPTICAL FIBER 3M MM 0dB        | 3M Multi-mode Simplex SC/SC Connector  |
| LC-M/LC-M OPTICAL FIBER 3M SM 0dB Duplex | 3M Single Mode Duplex LC/LC Connector  |
| LC-M/LC-M OPTICAL FIBER 3M MM 0dB Duplex | 3M Multi-mode Duplex LC/LC Connector   |
| LC-M/SC-M OPTICAL FIBER 3M SM 0dB Duplex | 3M Single Mode Duplex LC/SC Connector  |
| LC-M/SC-M OPTICAL FIBER 3M MM 0dB Duplex | 3M Multi-mode Duplex LC/SC Connector   |

\*Note: There are many types/lengths of fiber patch cords, if there are any specifications not listed, please contact us.

### ■ Industrial SFP Transceiver

| Model Name                | Description                                                                        |
|---------------------------|------------------------------------------------------------------------------------|
| SFP 1.25G MM-LC-2F-85     | SFP 1.25Gbps, 850nm, 500m, 0~70°C, Multi-mode, Duplex LC connector                 |
| SFP 1.25G MM-LC-2F-13     | SFP 1.25Gbps, 1310nm, 2km, 0~70°C, Multi-mode, Duplex LC connector                 |
| SFP 1.25G SM-LC-2F-13-20  | SFP 1.25Gbps, 1310nm, 20km, 0~70°C, Single Mode, Duplex LC connector               |
| SFP 1.25G SM-LC-2F-15-40  | SFP 1.25Gbps, 1550nm, 40km, 0~70°C, Single Mode, Duplex LC connector               |
| SFP 1.25G SM-LC-2F-15-120 | SFP 1.25Gbps, 1550nm, 120m, 0~70°C, Single Mode, Duplex LC connector               |
| SFP 1.25G SM-SC-BIDI-B3   | SFP 1.25Gbps, 1310nm/1550nm, 20km, 0~70°C, Single Mode, Bi-di Simplex SC connector |
| SFP 1.25G SM-SC-BIDI-B5   | SFP 1.25Gbps, 1550nm/1310nm, 20km, 0~70°C, Single Mode, Bi-di Simplex SC connector |
| SFP 1.25G RJ-45           | SFP 10/100/1000Base-T UTP, 100m, 0~70°C                                            |

For other related product information, please visit the official website: [www.hoatech.com.tw](http://www.hoatech.com.tw)

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