



**UT-901G-XX-BT**  
**UT-901G-XX-BR**



## Scope of Application

The LINK SFP transceivers (SFP is also called "mini-GBIC") are high performance, cost effective modules which is the best for all LINK Media Converters, all LINK Switches and can be compatible with other brands.

LINK SFP Bi-Di transceivers are using single-fiber with WDM technology (bi-directional), operate on a single strand of standard SMF. The transceivers provide extended connectivity up to 120km transmission distance. They uses wavelength of 1310nm/1550nm or 1490nm/1550nm with single core of fiber optic to transmit and receive for optical data communications.

LINK SFP transceivers are a hot-pluggable (or hot-swappable). You can plug-in and out the transceiver to/from any SFP port without having to power down the network devices.

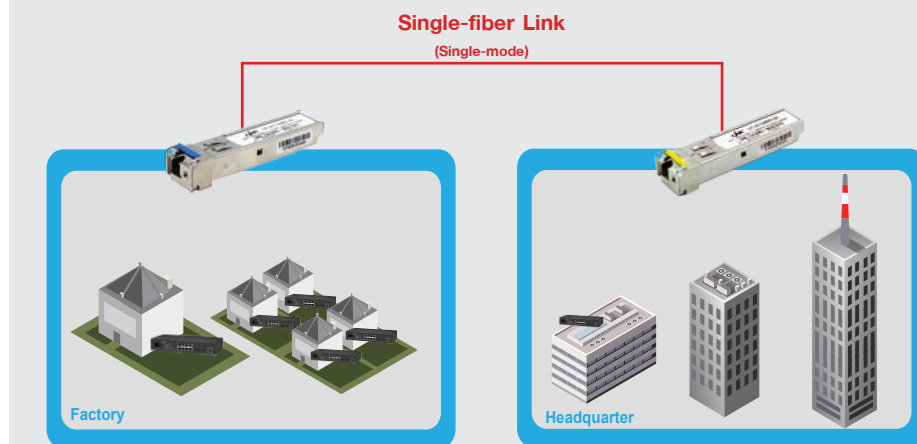
## Features Highlight

- Compliant with IEEE 802.3z Gigabit Ethernet standard
- Support data rate up to 1.25Gbps
- Industry standard small form-factor pluggable (SFP) package
- Compliant with Multi-Source Agreement (MSA) and SFF-8472
- Simplex LC connector
- Support Digital Diagnostic Monitoring Interface (DDMI)
- Single power supply 3.3V
- TTL signal detect indicator
- Hot-Pluggable
- Class 1 laser product complies with EN 60825-1
- Operating temperature from 0°C to 70°C
- Plug and Play Installation
- RoHS Compliant

## Applications

- Gigabit Ethernet
- Fiber Channel
- Switch to Switch interface
- Media Converter to Switch interface
- Media Converter to Media Converter interface
- Network Storage
- Router/Server interface
- Switched backplane applications
- Other optical transmission systems
- 1000Base-SX, 1000Base-LX, 1000Base-ZX

## Fiber-Optic Link Capability of Network Deployment





## Technical Data

| Standards                  |                                                         |
|----------------------------|---------------------------------------------------------|
| IEEE 802.3z                | 1000Base-X                                              |
| Mechanical and Environment |                                                         |
| Form Factor                | SFP                                                     |
| Connector                  | Simplex LC                                              |
| DDMI/DOM                   | Supported                                               |
| Power Supply Voltage       | 3.3V                                                    |
| Operating Temperature      | 0°C to 70°C                                             |
| Storage Temperature        | -40°C to 85°C                                           |
| Operating Humidity         | 10% to 95% RH (non-condensing)                          |
| Storage Humidity           | 5% to 95% RH (non-condensing)                           |
| Compatible List            | Alcatel, Allied Telesis, Arista, Aruba, Avaya, Brocade, |
|                            | Cisco, Cisco Meraki, Dahua, Dell, Delta, D-Link,        |
|                            | Ericsson, Extreme, Fiberhome, Fortinet, H3C,            |
|                            | Hikvision, Hirschmann, HP/HPE, Huawei, IBM,             |
|                            | INTEL, Juniper, Linksys, Mellanox, MikroTik, Moxa,      |
|                            | Netgear, Nokia, Nortel, Palo Alto, QNAP, Ruckus,        |
|                            | Ruijie, Sophos, Synology, TP-Link, Ubiquiti, ZTE,       |
|                            | Zyxel, etc.                                             |

| Certifications |                                |
|----------------|--------------------------------|
| ESD            | MIL-STD-883E Method 3015.7     |
|                | IEC 61000-4-2                  |
| EMI            | CISPR22 ITE Class B            |
|                | FCC Class B & CE               |
|                | EN 55022                       |
| EMC            | VCCI Class 1                   |
|                | IEC 61000-4-3                  |
| Product Safety | FDA 21 CFR 1040.10 and 1040.11 |
|                | Class 1 Laser                  |
|                | EN 60825-1                     |
|                | EN 60825-2                     |
| Green Product  | EN 60950-1                     |
|                | RoHS                           |

| Ordering Information |                                         |
|----------------------|-----------------------------------------|
| UT-901G-XX20-BT35    | 1.25G SFP Bi-Di SMF 1310nm/1550nm 20km  |
| UT-901G-XX20-BR53    | 1.25G SFP Bi-Di SMF 1550nm/1310nm 20km  |
| UT-901G-XX40-BT35    | 1.25G SFP Bi-Di SMF 1310nm/1550nm 40km  |
| UT-901G-XX40-BR53    | 1.25G SFP Bi-Di SMF 1550nm/1310nm 40km  |
| UT-901G-XX60-BT35    | 1.25G SFP Bi-Di SMF 1310nm/1550nm 60km  |
| UT-901G-XX60-BR53    | 1.25G SFP Bi-Di SMF 1550nm/1310nm 60km  |
| UT-901G-XX80-BT45    | 1.25G SFP Bi-Di SMF 1490nm/1550nm 80km  |
| UT-901G-XX80-BR54    | 1.25G SFP Bi-Di SMF 1550nm/1490nm 80km  |
| UT-901G-XX120-BT45   | 1.25G SFP Bi-Di SMF 1490nm/1550nm 120km |
| UT-901G-XX120-BR54   | 1.25G SFP Bi-Di SMF 1550nm/1490nm 120km |

### Note :

\* Specifications subject to change without notice.

\* XX is code of transceiver as requested from compatible list.

LC = LINK-Cisco

CN = Ciena

IB = IBM

HP = Hewlett Packard

DL = Dell

IT = INTEL

AB = Aruba

ES = Ericsson

JP = Juniper

AA = Adva/Adtran

ET = Extreme

MN = Mellanox

AL = Alcatel-Lucent

FN = Fortinet

NK = Nokia

AT = Arista

HC = H3C

SM = Siemens

AY = Avaya

HM = Hirschmann

ZT = ZTE

BC = Brocade

HW = Huawei

## Optical Characteristics

| Part Number        | Transmit Power<br>(dBm) | Receiver Sensitivity<br>(dBm) | Wavelength (nm) |         | Operation Distance (m)<br><br>OS2 (9/125) | Input<br>Voltage<br>(V) | Connector  |
|--------------------|-------------------------|-------------------------------|-----------------|---------|-------------------------------------------|-------------------------|------------|
|                    |                         |                               | Transmit        | Receive |                                           |                         |            |
| UT-901G-XX20-BT35  | -9 to -3                | -20                           | 1310            | 1550    | 20,000                                    | 3.3                     | Simplex LC |
| UT-901G-XX20-BR53  | -9 to -3                | -20                           | 1550            | 1310    | 20,000                                    | 3.3                     | Simplex LC |
| UT-901G-XX40-BT35  | -5 to 0                 | -24                           | 1310            | 1550    | 40,000                                    | 3.3                     | Simplex LC |
| UT-901G-XX40-BR53  | -5 to 0                 | -24                           | 1550            | 1310    | 40,000                                    | 3.3                     | Simplex LC |
| UT-901G-XX80-BT45  | 0 to +5                 | -26                           | 1490            | 1550    | 80,000                                    | 3.3                     | Simplex LC |
| UT-901G-XX80-BR54  | 0 to +5                 | -26                           | 1550            | 1490    | 80,000                                    | 3.3                     | Simplex LC |
| UT-901G-XX120-BT45 | 0 to +5                 | -31                           | 1490            | 1550    | 120,000                                   | 3.3                     | Simplex LC |
| UT-901G-XX120-BR54 | 0 to +5                 | -31                           | 1550            | 1490    | 120,000                                   | 3.3                     | Simplex LC |



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UT-901G-XX-BT&BR-V1.7-251225

# Drawing

