# FibRSol – Fiber Media Converter

**Model: FSMC—35MBi-20 / FSMC-53MBi-20**

## Highlights:

- ✓ SM BiDi
- ✓ 10/100/1000M
- ✓ TX-10/100/1000Base to 1000 Base-FX
- ✓ SC, 20km
- ✓ External AC 220V
- ✓ Bi-Directional
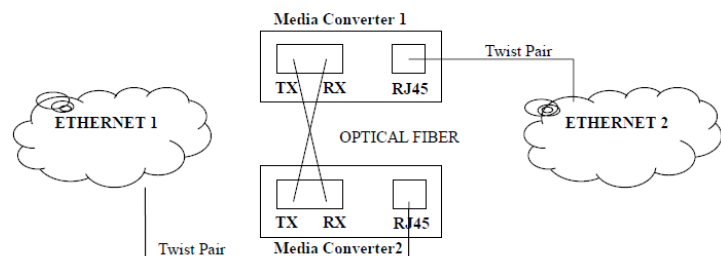- ✓ Single Fiber

## Product Overview:

**FibRSol FSMC-35MBi-20/FSMC-53mBi-20** 10/100/1000M Fiber Media Converter translates the signal from a twist-pair 10/100/1000Base-TX cable to 1000Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 20km by Single fiber optic
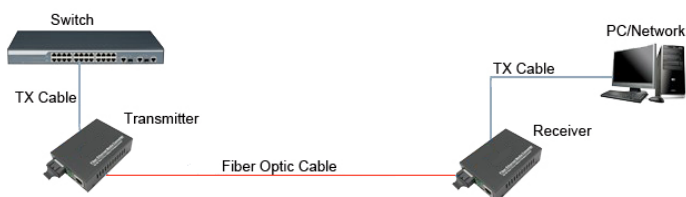
## Features:

- In conformity to IEEE802.3 10base-T,
- IEEE802.3u 100 base-TX/FX,
- IEEE802.1a, IEEE802.1PQ0S,
- IEEE802.1d Spanning Tree.
- 10/100/1000Mbps auto-sensed
- 10/100/1000Mbps store-and-forward
- 1000Mbps cut-through transmission
- MDI/MDI-X Auto Negotiation Supports
- 2U 19" System Chassis, holds up to 14pcs standalone type media converter or 16pcs card based media converter
- Hot Pluggable & Wall-Mountable
- Stable performance more than 50 thousands hours with fault-free
- Unique IC solution applied Supports 10/100Mbps and 10/100/1000M
- full/half duplex / Auto-negotiations / easy upgrades
- Supports VLAN / VoIP / QoS
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat,
- Transmission Stable performance more than 50 thousands hours with fault-free
- In conformity with safety code of FCC, CE and RoHS.

# Application:

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking
- Extend your Ethernet connection up to 0~120km away using fiber optics
- Creates an economical Ethernet-fiber/copper-fiber link for connecting remote sub-networks to larger fiber optic networks/backbones
- Converts Ethernet to fiber, fiber to copper/Ethernet, ensuring optimum network scalability for connecting two
- or more Ethernet network nodes (e.g. connecting two buildings on the same campus)
- Designed to provide high-speed bandwidth for demanding large scale work groups that require expansion of
- Gigabit Ethernet Network



# For Networking:



# Software Spec

| | |
|---|---|
| **Standard:** | IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet IEEE802.3u 1000Base-TX/FX Fast Ethernet |
| **Data Rate:** | **Copper:** 10/100/1000M; **Fiber**: 1.25G |
| **Flow control:** | **Full duplex**: flow control; **Half duplex**: back pressure |
| **Cooper Port:** | **No.s of Copper Port:** 1 **Connector**: RJ45 Connector **Distance**:100m |
| **Fiber Port:** | **No.s of Fiber Port:** 1 **Connector:** SC as default **Wavelength: SMF:** 1310nm/1550nm **Distance**: 20Km |
| **LED indicators:** | **PWR** (power supply); **FL/A** (optical link/action) **FDX** (FX full duplex), **TL/A** (twisted pairs link/action) **100** (100M transmission rate of twisted pairs), **FX** (100M transmission rate of optical fiber) |
| **Power supply:** | **Working power:** DC5V 1A **AC Power Supply:** 100V~ AC240V to 5V1A **Or DC Power Supply:** -36~-72V to 5V1A External / Internal Power Supply Optional |
| **Power consumption:** | <3W |
| **Environment:** | **Operating temperature :** -10~55ºC **Storage Temperature:** -40~85ºC **Relative Humidity:** 5% to 95% non-condensing |
| **Dimensions:** | **External**: 94mmx70mm*26mm **Internal**: 140mmx110mmx30mm |
| **Gross Weight:** | **External** : 0.4kg **Internal**: 0.5kg |

# Ordering Information:

| Model | Description |
|---|---|
| **FSMC-35MBi-20** | Media converter, SM, BiDi, 10/100/1000M, TX-1310nm/RX1550nm, SC, 20km, External AC 220V |
| **FSMC-53MBi-20** | Media converter, SM, BiDi, 10/100/1000M, TX-1550nm/RX1310nm, SC, 20km, External AC 220V |