

## Long-reach Ethernet



### FYCUS-01

**Fycus-01** is a Long-reach Ethernet product, supporting distances upto 500metres at 100Mbps over CAT-5 cable.

**Fycus-01** boosts reliability & device performance with very low latency and operates in full-duplex mode.

#### Key Features

- Standard 10/100Mbps LAN Ethernet Port (1 no), complying IEEE 802.3, IEEE 802.3u
- WAN Ethernet port (1 no) for long reach upto 500m
- 6-Pin DIP Switch for configuring different types of data rates & wire-pair selection
- LED indications for Link Up/Down, Data transmit / receive & Speed of Ethernet connectivity
- Input power : 100 ~ 240V AC, 50-60Hz  
-36V ~ 60V DC

## Description

**Fycus-01** is a Long-reach Ethernet product, supporting distances upto 500metres at 100Mbps over CAT-5 cable.

**Fycus-01** – Ethernet Extender boosts reliability & device performance with very low latency and operates in full-duplex mode.

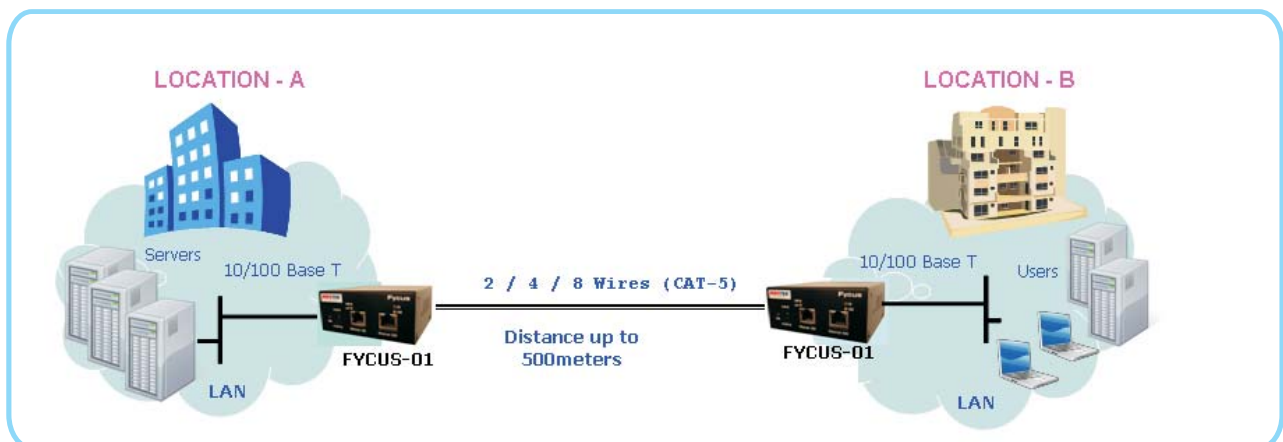
The long reach will also broaden the range of cable installations and can be used for new IP services and applications such as broadband access, voice over IP, wireless access points, and surveillance cameras.

**Fycus-01** addresses key issues that affect deployment of IP services in today's enterprise. In new installations, some devices such as wireless access points and surveillance cameras may not be conveniently located within the standard 100-meter range of wiring in structured cabling systems. For these applications, **Fycus-01** provides the network designer with additional flexibility in connecting devices over distances that would otherwise require fiber optic cabling and expensive optical transceivers.

**Fycus-01** can operate in full duplex at the rate of 10 Mbps over one single 500-meter in CAT-5 twisted-pair cable at the rate of 100 Mbps over four-pair CAT5 twisted-pair wiring.

## Application

**Fycus-01** supports applications that require 10/100Mbps Ethernet access greater than 100 meter reach or operation over a CAT-5 single twisted wire pair (such as hotels, colleges/ universities, convention centers, airports, train stations).



## Technical Specification

- **Interfaces**  
 LAN Ethernet Port : 1 no, (10/100Mbps) complying IEEE 802.3, IEEE 802.3u  
 WAN Ethernet port : 1 no for long reach upto 500m

Speed / Number of wires	Distance (m)	Cable Type
100Mbps / 8-wire	500	CAT 5
100Mbps / 4-wire	250	CAT 5
100Mbps / 2-wire	250	CAT 5
10 Mbps / 4-wire	500	CAT 5
10 Mbps / 2-wire	500	CAT 5
10 Mbps / 2-wire	500	24 AWG (CAT 5)

- **LED indications**  
 PWR (Green) : Power-ON indication  
 Link/Activity (Green)  
     ON     -> Link Up  
     OFF    -> Link Down  
     Blinking -> Activity  
  
 10/100 (Amber) Speed of Ethernet connectivity.  
     ON    --> 100Mbps  
     OFF   --> 10Mbps

- **6-pin DIP switch**  
 Available on the front panel for configuring different type of data rates & wire-pair selection.
- **Power supply**  
 Input Voltage : 100 ~ 240V AC, 0.1A,  
                   50 ~ 60 Hz  
                   -36V ~ -60V DC  
 Max Power : 3.5W
- **Environment of operation**  
 Operating temperature : 0° ~ 50°C  
 Storage temperature : -40° ~ 70°C  
 Humidity : : 5% ~ 90%, non-condensing
- **Dimensions (WxHxD) : 100 x 100 x 44 mm**
- **Weight : 300 gm**

## Ordering Fycus-01

<b>Fycus-01/AC</b>	Ethernet extender device, working on 230V AC power
<b>Fycus-01/DC</b>	Ethernet extender device, working on -48V DC power



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