



UT-4206



### Product Introduction & Benefits

This unit offers cost - efficiency for extending distances to between 2km (multi-mode fiber) and 120km (single-mode fiber). The UT-420X enables network managers to install fiber cabling anywhere within the existing network environment -- without the removal, replacement or modification of existing copper - based RS-422/485 infrastructure. Plus, it is capable of 4-wire and 2-wire operations via DIP switch.

Simply use the DIP switch to adapt to different cabling environments (e.g. 4-wire or 2-wire). The converter is ideal for connecting data communication devices situated in manufacturing-intensive environments where electromagnetic and radio-frequency interference is a major concern. Data integrity is also assured due to the characteristics of fiber-optic cables that make any leakage of transmission detectable.

### Ordering Information :

**UT-4204** : RS-422/485 to Multimode Fiber Media Converter (ST Connector, 2km)

**UT-4206** : RS-422/485 to Multimode Fiber Media Converter (SC Connector, 2km)

**UT-4206SM-30/60/100/120** : RS-422/485 to Singlemode Fiber Media Converter (SC Connector, 30/60/100/120km)

### Main Features :

- Complies with EIA/TIA-422, EIA/TIA-485
- Supports asynchronous data transfer rate of up to 115.2 kbps
- Supports 4-wire full and 2-wire asynchronous data transmission
- DIP switch enable / disable functions
- Available ST/SC connector
- LED status indicators for system monitoring
- DIP switch-enabled "terminator"
- 35mm DIN RAIL mounted
- External power supply
- Chassis compliant (internal power supply)
- FCC Class A & CE approved
- RoHS Compliant
- Included AC power adapter 220 VAC / 12 VDC, 1A



# UT-420X Series Specifications :



● <b>Standard :</b>	EIA/TIA-422, EIA/TIA- 485
● <b>Port :</b>	Copper Connector : 1x serial RS-422/485 (Terminal Block) Fiber Optic Connector : 1x ST or SC type (only SC type for Single Mode)
● <b>Max Distance :</b>	Copper : 1200 meters Fiber Optic : 2km, (Multi Mode) 30 - 120km, (Single Mode)
● <b>Data Rates :</b>	Serial : 115.2 kbps (asynchronous)
● <b>Emissions :</b>	FCC Part 15 of Class A & CE approved
● <b>Weight :</b>	280 g
● <b>Dimensions :</b>	109.2 x 90 x 31.5 mm (D x W x H)
● <b>DIP Switches :</b>	DIP1 : N/A DIP2 : N/A DIP3 : Enable / disable 2-wire/4-wire mode DIP4 : Enable / disable terminator (TMR)
● <b>Power :</b>	Power Input : 9 ~ 32V DC, external power adapter
● <b>Temperature :</b>	Operating : 0°C to 50°C Storage : -20°C to 80°C
● <b>Humidity :</b>	Operating : 5% to 90% RH Storage : 0% to 80% RH
● <b>Unit LED :</b>	PWR : Green - Illuminated for normal operation LNK : Green - Illuminated when fiber is properly connected RCV : Amber - Illuminated for receiving packets from RS-422/485 Device



## Applications :

- Industrial/Factory/Laboratory automation SCADA systems Self-service banking systems
- Factory robots and HVAC control systems
- Wafer fabrication systems
- Point of Sale (POS) systems
- Security cameras or other remote distributed serial devices
- Any application where ruggedness, durability and shock/vibration - proof qualities are required