RUBY TECH
Networking & Communications

Unmanaged Media Converter *(vertical side title)*

RS-C250

RS-C250:
RS-232/422/485 to Fiber Converter

Key Features
- Point-to-Point transmission
- RS-232/RS-422/RS-485 to fiber all in one design
- Main chip using market-leading transceiver
- Auto baud rate detection up to 460.8K Bps
- Extend serial signal through fiber cable
  - Up to 20km (or More) with single mode
  - Up to 2km with multi mode
- Converting serial to Multi-mode or Single-mode fiber
- DB-9 or Terminal block serial connector(Optional)
- Providing Chassis or DIN-Rail installation
- Operating temperature range 0 to 50°C
- RoHS Compliance

Overview
RS-C250 is a Multi-serial to fiber media converter which adopts RS-232/RS-422 /RS-485 triple mode circuits with auto baud rate and direction control. It extends the serial signal link distance to 2KM (Multi-mode Optical Fiber) or 20KM (Single-mode Optical Fiber) and also provides good immunity of EMI/EMS. Further more, RS-C250 supports Chassis and DIN rail mount for quick and easy installation.

Technical Specifications
- **Standard Compliance:**
  TIA/EIA-232 (ITU-T V.28)
  TIA/EIA-422 (ITU-T V.11)
  TIA/EIA-485 (ISO/IEC8284)
- **Data Transfer Rate:**
  300bps to 460.8Kbps
- **Cable:**
  Fiber (M-M): 50/125,62.5/125,100/140μm (Up to 2km)
  Fiber (S-M): 8.3/125,8.7/125,9/125,10/125μm (Up to 20km or more)
  Bidi-SC 1310nm,1550nm
- **LED Description**

LED	Color	Function
FX (LNK/ACT)	Green	Lit when fiber connection is good Blinks when fiber data is present
DATA (Copper)	Green	Lit when Copper data is present
PWR	Green	Lit when 5V power is coming up

- **DIP Switch Function**
- **Sw1 (Copper Mode Select)**

SW1 (Copper Mode Select)			
Mode	1	2	Description
RS232*	OFF	OFF	RS232 mode
RS422-4W	OFF	ON	RS422 4-wire mode (Full duplex)
RS485-4W	ON	OFF	RS485 4-wire mode (Full duplex)
RS485-2W	ON	ON	Rs485 2-wire mode (Half duplex)

*: Default

- **SW2 (RS-422/RS-485 TERMINATION)**

SW2 (Termination select)		
1	2	Description
OFF	OFF	Termination disable
OFF	ON	Insert 120 terminator on RS-485 TX/RX wires
ON	OFF	Insert 100 terminator on RS-422 TX/RX wires
ON	ON	Do not use

NOTE: SW2-1 and SW2-2 do not set to "ON" at the same time

- **Hardware Spec**

Feature	Detailed Description
Voltage	1A@+5VDC from CR-1112 Chassis or AC-DC Adapter (85~264VAC Input, 5V VDC output, 0~50℃)
Ambient Temperature	0 to 50℃
Humidity	5% to 90%
Dimensions	26.2(H) x 70.3(W) x 94(D) mm
Weight	0.2kg
Installation	Desktop, Chassis, Din Rail (Optional)
Safety	Comply with FCC Part 15 Class A & CE Mark Approval
MTBF	547.1K
Warranty	1 Year

Packing Information

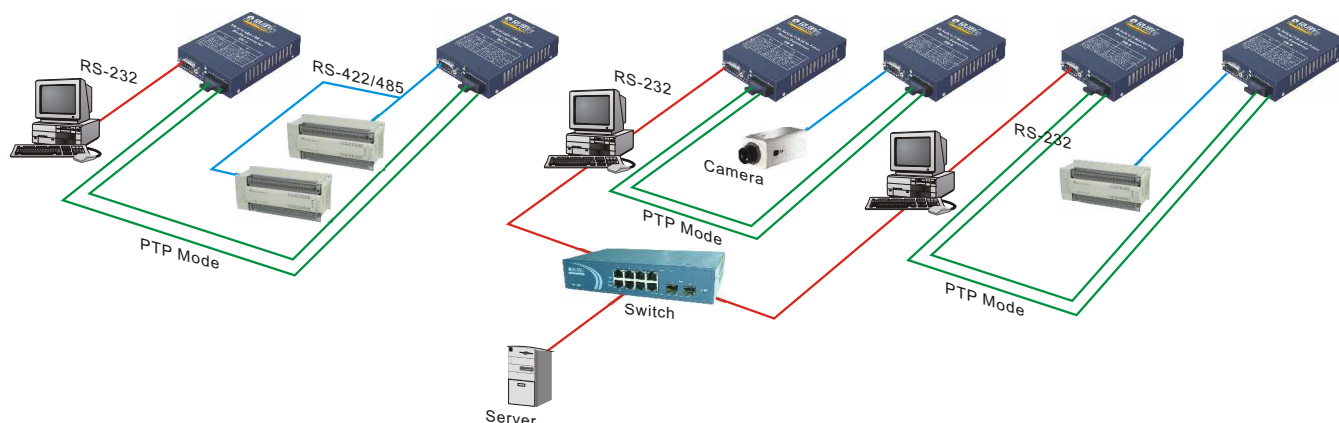| Carton Dimensions(mm)	pcs/Carton	N.W (KG)	G.W (KG)
530x512x345	40	17.6	18.6

Order Information

RS-C250ST-1	RS-232/422/485 (DB-9) to Fiber Converter, ST Multi-Mode
RS-C250ST-2	RS-232/422/485(Terminal Block) to Fiber Converter, ST Multi-Mode
RS-C250ST-3	RS-232/422/485 (DB-9) to Fiber Converter, ST Single-Mode 20km
RS-C250ST-4	RS-232/422/485(Terminal Block) to Fiber Converter, ST Single-Mode 20km
RS-C250SC-1	RS-232/422/485 (DB-9) to Fiber Converter, SC Multi-Mode
RS-C250SC-2	RS-232/422/485(Terminal Block) to Fiber Converter, SC Multi-Mode
RS-C250SC-3	RS-232/422/485 (DB-9) to Fiber Converter, SC Single-Mode 20km
RS-C250SC-4	RS-232/422/485(Terminal Block) to Fiber Converter, SC Single-Mode 20km

Note: Any other distance is upon request.

Optional Accessories
DRK-35: DIN-Rail Mounting Kit

Application

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