KOM300 User’s Manual

KYLAND Telecom Technology Co., Ltd.

Chapter 1 General Introduction of Product

KOM300 series is an industrial Ethernet fiber optical modem specially developed by Kyland Telecom for industrial application. KOM300 enabling easy photoelectric conversion of Ethernet signal can work in harsh indus trial electromagnetic environment and different reg ional temperature environments in China, providing a reliable base for networking of industrial control systems. The product is characterized as the following features:

1. 10/100 Base-TX to 100Base-FX media converter, supporting single mode fiber or multi-mode fiber
2. Complying with IEEE802.3 and IEEE802.3U standards
3. 100M linear speed storage and forwarding
4. Broadcast storm control
5. 1K MAC address table, 1M buffer memory
6. Commissioning-free installation and operation
7. Power supply indicator, connection state indicator
8. Standard DIN rail or fixing on the rack with retainer plate

Chapter 2 Main Technical Parameters

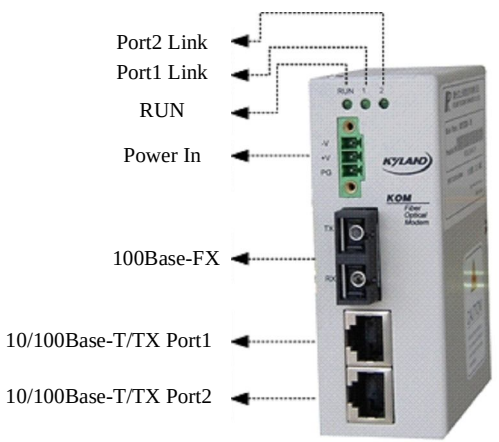
1. Electrical properties IEEE802.3 and IEEE802.3U standards
2. Physical interface RJ45 shielded
3. Optical transmission distance Multi -mode 2Km, single-mode 40Km
4. Connector FC/ SC
5. Power supply External power supply + 9~30VDC (non-isolated), DC24V, DC48V, AC220V
6. Relative humidity 0-95% (non-condensing)
7. Output power > -13dbm (single mode system) >-20dbm (multi-mode system)
8. Sensitivity < -28dbm (single mode system) < -34dbm (multi-mode system)
9. Working temperature -35 □ ~+75 □
10. Storage temperature -45 □ ~+85 □
11. Mechanical dimension 36mm x 100mm x 75mm (W x H x D)

Chapter 3 Production Description

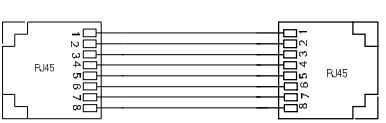
1．KOM300 series products list

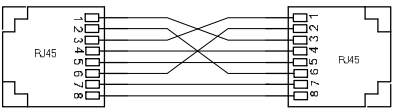
Model	Description
KOM300-S	Single mode 10/100Base -T(x) to 100Base -FX media converter
KOM300-M	Multi mode 10/100Base -T(x) to 100Base -FX media converter
KOM300-SD	Single mode single fiber bi-directional 10/100Base-T(x) to 100Base-FX media converter

2．Schematic diagram for KOM300 media converter panel



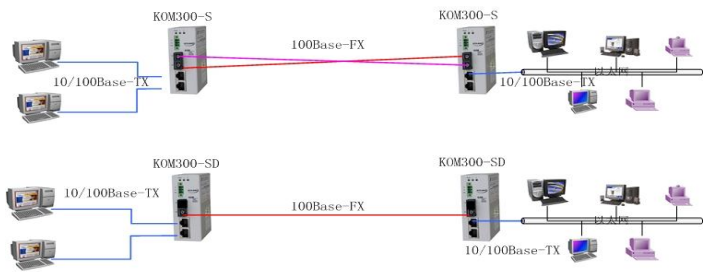
3. Instruction for Ethernet interface wiring





The connection sequence is in turn: Orange-white, Orange, Green-white, Blue, Blue-white, Green, Brown-white and Brown
Green-white, Green, Orange-white, Blue, Blue-white, Orange, Brown-white and Brown

Chapter 4 Product Applications



Attention:

1) This product is a precise equipment, so dampproof measure should be taken during storage;
2) The optical interface should be cover with a guard if the equipment is not connected with optic fiber.

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