

D A T E N B L A T T

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AKKOATAF1100GESF

Dateiname: DB-AKKOATAF1100GESF-EN-02 Version: 02



Symbol Photo

Gigabit Ethernet Konverter

This product supports IEEE802.3UI100Base-Tx/Fx, IEEE802.3Z protocol, as well as full duplex and half duplex mode. This manual is for 1000M transceivers.

Product Features:

1. In conformity to IEEE 802.3 10 Base-T standard
In conformity to IEEE 802.3u 100Base-TX/FX standard
In conformity to IEEE 802.3Z 1000Base-TX/FX standard
2. Support 10/100/1000Mbps auto-negotiation for RJ45 ports
3. Max. 2M buffer memory built in chip
4. Back pressure flow control for full duplex
IEEE802.3 X and half duplex
5. Automatic identification of MDI/MDI-X cross line
6. High-performance 1.4Gbps memory bandwidth
7. In conformity to safety code of FCC and 15 CLASS B and CE MARK

Cautions:

1. This product is suitable for indoor application
2. Put on the dust cover of fiber interface when not used
3. It is forbidden to stare at the TX fiber-transfer end with naked eyes
4. Single optical fiber transceiver must be used in pair (See the attachment description in delivery)

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Technical Parameters:

1. Standard Protocol: IEEE 802.3 10 Base-T standard
 IEEE 802.3u 100Base-TX/FX standard
 IEEE 802.3Z 1000Base-TX/FX standard
2. Connector: Port-1 1x RJ45 Copper-Port, 10/100/1000 auto-negotiation
 Port-2 Gigabit Fiberport with 1 or 2 SC/PC Connectors
3. Operation mode: full duplex mode or half duplex mode
4. Power supply parameter: outside: 5V DC 1A
 built-in: 110-265V AC 48VDC
5. Environmental temperature: 0°C -60 °C
6. Relative humidity: 5%-90%
7. TP cable: Cat5 UTP cable
8. Transfer fiber: multi-mode: 50/125, 62.5/125 µm
 single mode: 8.3/125, 8.7/125, 9/125 or 10/125 µm
9. Dimensions: External power supply: 26mm x 70mm x 95mm
 (can be installed in 19" 2U 14slots rack-mount chassis)
 Internal power supply: 40mm x 110mm x 140mm

Product Information & Transmission Characteristics:

Description	Fiber mode	TX Power	RX Power	Wavelength	Distance
AKKOATAF1100GEMM05	Multi-mode dual fiber	-17 ~ -12	<< -20.0	850nm	550m
AKKOATAF1100GESM20	Single-mode dual fiber	-3 ~ -8	<< -23.0	1310nm	20 Km
AKKOATTS1000GESM20A AKKOATTS1000GESM20B	Single-mode single fiber	-8 ~ -3	<< -23.0	A side:Tx1550nm/Rx1310nm B side:Tx1310nm/Rx1550nm	20 Km
AKKOATTS1000GESM40A AKKOATTS1000GESM40B	Single-mode single fiber	-3 ~ 0	<< -23.0	A side:Tx1550nm/Rx1310nm B side:Tx1310nm/Rx1550nm	40 Km
AKKOATAF1100GESF	10/100/100 TX 1000 Base-X	SFP	SFP	SFP	SFP
AKKOATAF1000GESF	100/1000 Base-X 100/1000 Base-X	SFP	SFP	SFP	SFP

Datum: 25.11.2020
 Autor: Prod.Mgmt.
 Freigabe: QA, 12.01.2021

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Troubleshooting:

1. Device is not matched. Please select the corresponding network device according to the transfer rate of the product (10Mbps or 100Mbps) when connected to other network devices (network card, hub, switch).
2. Line loss is excessive during the fiber wiring. Excessive loss in connector plug-in and fiber soldering welding, and excessive intermediate nodes may cause excessive loss rate or abnormal operation.

Installation:

1. Interface

RJ-45 interface

The transmission media adopts CAT5 twisted-pair with typical length of 100 meter. It features the function of automatically identifying the through line and cross wire.

Fiber interface

SC/ST fiber interface is of duplex mode type, including two interfaces, namely TX and RX. When the two sets of optical transceiver are interfaced or connected to switch with fiber interface, the fiber is in cross connection, namely "TX-RX", "RX-TX" (direct butting for single optical fiber).

2. Connection

The network device (work station, hub or switch) with RJ-45 interface is connected to RJ-45 jack of optical transceiver through twisted-pair. And the multi/single mode fiber is connected to SC/ST fiber interface of the optical transceiver. Then switch on. The corresponding LED is on for correct connection. (See the table below for the LED indicator lamp)

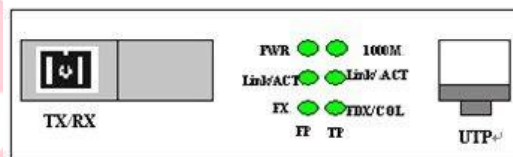


Table 1 : Front panel for single fiber media converter

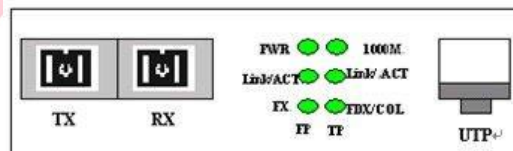


Table 2 : Front panel for dual fiber media converter

Explanation for LED indicator lamp
 LED indicator lamps serve as device monitoring and trouble display.

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The following is the explanation for each LED indicator lamp.

LED	function	status	Describing
PWR	Power LED	ON	Power is ON
		OFF	Power is Fail
FX	Fiber port signal detect LED	ON	Laser is receiving
		OFF	No laser input
FX-LINK/ACT	Fiber port link/action status LED	ON	Fiber link is ok
		Blink	Data is been received or transmitted
		OFF	Fiber link is fail
1000M	UTP port speed LED	ON	1000M speed
		OFF	100M speed
TX-LINK/ACT (* FX2)	UTP port link/action status LED	ON	Link is ok
		Blink	Data is been received or transmitted
		OFF	Link is fail
FDX/COL	UTP port duplex LED	ON	Full duplex
		OFF	Half duplex

* AKKOATAF1000GESF



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