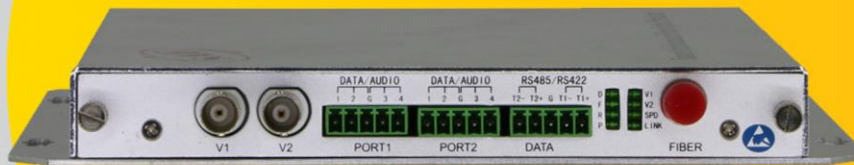




Smart Architecture of Espadana

Designing, Production, Customization and Consultant Service
in Network and Fiber Optic System



Technical Specification

SAE-1bV-FSK-T_R

One channel (FSK) signal transceiver support frequency up to 10MHz





Product Description

- Supports:
- High-frequency FSK signal modulation
- Modular industrial design ensuring reliability and flexibility
- FC and ST interface as fiber optic connector for your choice
- Stand alone and Rack mount (2U/4U Card type) for your choice
- Sampling rate up to 20Msps
- No Electrical or Optical Adjustments Required
- LED indication of working status for monitoring real-time operation

Full Description

This SAE-1bV-FSK-T_R is 1Channel bidirectional FSK signal of our products, use advanced analog and digital technologies for pursuing high performance data transmission over fiber optic. The transceiver; optionally, can send signals more than 120 kilometers on fiber.

The product is widely used in Security protection system and national defense. This Optical Transceiver is easily monitored by virtue of LED indicators of working status and without any electrical or optical regulation on site. This product is released in standalone and rack-mount(2U/4U) packages, please consider when you place an order. SAE-1bV-FSK-T_R is made with high quality of rigorous screened components, which have superior performance in stability, environmental adaptability. It can work normally in very cold environment to hot from -40°C to +85°C. The product is planned in a way to have better resistance against corrosion and electromagnetic interference and work for years without any degradation in expected quality. Power input also made a suitable and reliable types of power, to get more powerful suitability to environment.



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Applications

- Security Applications
- Tele-Communication System
- Intelligent transportation supervisory system (ITS)
- Telemedicine
- E-learning & Campus monitoring
- Skyscraper Security Protection system

Technical specification

Product name		SAE-1bV-FSK-T_R			
Working Temperature	Storage Temperature	Relative humidity	Input Voltage	Transfer Mode	Dimensions
-40 °C~+85 °C	-45°~+95 °C	0~90% Non-condensing	DC-5V	Single mode/ Multi mode	160×100.5×59.5 mm

Link Budget:

1-multi mode transmitters

Fiber type	lose	Maximum Transmission Distance	Link Power	Wavelength
62.5 um	1(dB m/km)	500(meter)	-19.5~-16(dBm)	850, 1310(nm)

2-single mode transmitters

Fiber type	lose	Maximum Transmission Distance	Link Power	Wavelength
9/125 um	0.5(dBm/km)	20(km)	-8~-5(dBm)	1310, 1550(nm)
9/125 um	0.5(dBm/km)	40(km)	-5~-3(dBm)	1310, 1550(nm)
9/125 um	0.25(dBm/km)	60(km)	-3~-1(dBm)	1310, 1550(nm)
9/125 um	0.25(dBm/km)	100(km)	0~+3(dBm)	1310, 1550(nm)



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Video Characteristics

Interface	Input/output Impedance	Input/output Voltage	Bandwidth	Sampling	Differential gain	Differential phase	SNR
BNC	75Ω (unbalanced)	5 V-2 A	10MHz	Rate=20MHz	(10%-90%APL) DG<1%(typical value)	(10%-90%APL) DG<0.8%(typical value)	S/N<70dB

Data Characteristics

Direction	Controlling Equipment	Interface supporting terminal	Type of data:
Bi-directional	PTZ decoder, Keyboard, data interface of Matrix, High speed dome camera, industrial equipment	Standard industrial connector	RS485 (2 lines), RS422, RS232 and so on

RS485/RS422 Aspects (Optional)

Rate of RS485/RS422	Bit rate error	Max-number of nodes	Max transmission distance	Data Agreement	Direction	Type of data:
0-255 Kbps	Less than 10E-12	128	1200meter	supporting all kinds of RS485/422	Reverse	Support point to point, support point to more point



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Product Application Display

