

FSK TO FIBER MEDIA CONVERTER

- Extends the transmission up to 20 Kms.
- Complies to ITU-T V.21/ ITU-T V.23 Standards.
- Baud rate 300/600/1200 bits/second.
- 2-wire Voice-band Analog Interface.
- Software upgrade support.



HIGHLIGHTS

- ☉ P2P and Daisy-chain topology support.
- ☉ 1+1 protection on fiber.
- ☉ Single fiber option (Tx-Rx on same fiber) to save on fiber cost.
- ☉ Supports SC, ST and FC connectors on fiber port.
- ☉ Support up to 8 FSK Ports.
- ☉ ESD and EFT protection on FSK interface.
- ☉ In-built long range resilient 12-48V DC or 110-265V/50-60Hz AC power supply.
- ☉ In-built protection on power input.
- ☉ Dry Contact alarm relay output.
- ☉ Wide operating temperature range from -40 to 85°C.
- ☉ Hardened metallic chassis.
- ☉ A make in India product. Designed and developed indigenously.
- ☉ Full technology control, customization support available.
- ☉ Available in single fiber (SF) and dual fiber (DF) options.

OVERVIEW

Anaya Tech FSK to Fiber Converter is a specialized device designed to convert Voice-band analog FSK signals, commonly used in various communication systems, into optical signals suitable for fiber optic transmission.

By utilizing FSK to Fiber Converters, users can seamlessly integrate their FSK-based communication systems into fiber optic infrastructures, enhancing data integrity, reducing signal degradation, and extending the communication range. These converters play a significant role in ensuring smooth and efficient data transmission in various industries where reliable connectivity is essential. Anaya Tech FSK to Fiber converter also offers 1+1 protected fiber link to ensure uninterrupted communication even if a fiber link fails.

SPECIFICATIONS

FSK Interface

Protocol	2-wire Voice-band Analog Interface (FSK)
Ports	1/2/4/8
Standard	ITU-T V.21 @300 bits/second ITU-T V.23 @600/1200 bits/second
Impedance	600 Ohms

Fiber Interface

Fiber Type	Single Fiber (Single-mode) Dual Fiber (Single-mode / Multi-mode)
Wavelength	Single Fiber (1310 and 1550nm) Dual Fiber (Single-mode - 1310/1550, Multi-mode 850nm)
Distance	Up to 20 Kms
Connector	SC/ ST/ FC

Power Supply

Option 1	12-48V DC
Option 2	110-265V, 50/60Hz AC

PROTECTION

Power

Reverse Polarity	YES
Over Current / Short-circuit	YES
Under Voltage / Over Voltage	YES
Surge Protection	UL1449 compliant 4.5kA

FSK Interface

Surge Protection	IEC-61000-4-2 ESD - 30kV (Air), 30kV (Contact)
	IEC-61000-4-4 EFT

Other

Weather Proofing	Conformal coated PCBs
Mechanical	Ingress Protection - IP30

Applications

- ☑ Instrumentation
- ☑ Audio Transmission
- ☑ Remote Monitoring and Control
- ☑ Industrial Automation and Control
- ☑ Security and Surveillance

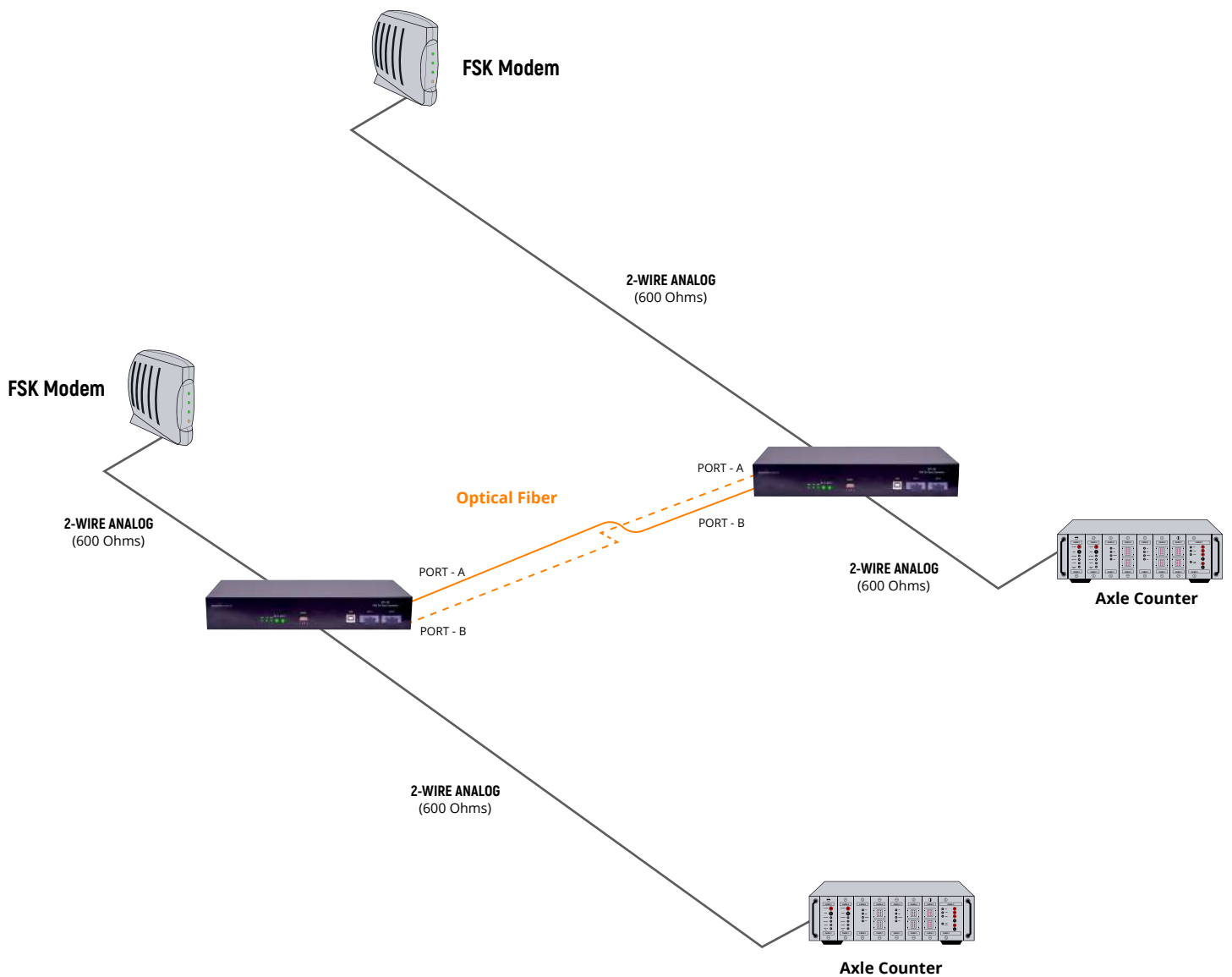
Industries

- ☑ Railways
- ☑ Power
- ☑ Telecommunications
- ☑ Oil and Gas
- ☑ Heavy Industries

APPLICATION DIAGRAM

Point-to-point Application

In point-to-point mode, the converters establish a direct, one-to-one connection between two locations. This mode is commonly used to bridge Analog FSK interfaces over long distance optical fiber connection.



Alarm & Indicator	
PWR	System Power
SYS	System Health
ERR	Error detected
OPT A	Optical Port A SYNC
OPT B	Optical Port B SYNC

Mechanical	
Chassis	Heavy Duty Metal Housing
Type	Desktop
Height	1RU (44mm)
Dimensions (HxDxW)	44x160x269 (in mm)
Weight	1.35 Kg

Environmental	
Operating Temp.	-40°C to 85°C
Storage Temp.	-40°C to 85°C
Humidity	5% To 95% - No Condensation

Quality And Certifications	
Product Safety	CE, RoHS
Quality Management	Manufactured in ISO certified factory

ORDERING INFORMATION

Model	Description		
	Topology	Fiber Ports	FSK Ports
FFC-XX-01-18	P2P	1	8
FFC-XX-01-14	P2P	1	4
FFC-XX-01-12	P2P	1	2
FFC-XX-01-28	P2P, Daisy-chain	1+1*	8
FFC-XX-01-24	P2P, Daisy-chain	1+1*	4
FFC-XX-01-22	P2P, Daisy-chain	1+1*	2

XX: SF or DF

SF: Single fiber (Single fiber for Tx and Rx) converters

DF: Dual fiber (separate fibers for Tx and Rx) converters


*For redundancy


Ordering Options

- ✓ **Model** : A or B (A:1310 Tx /1550 Rx and B:1310 Rx /1550 Tx) – Valid only for P2P SF models
- ✓ **FSK Interface**: ITU-T V.23/CCITT V.23@600/1200 bits/second ITU-T V.21/CCITT V.21@300 bits/second
- ✓ **Power** : AC: 110-265 VAC, DC : 12-48 VDC
- ✓ **Optical Connector** : SC/ FC/ ST

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