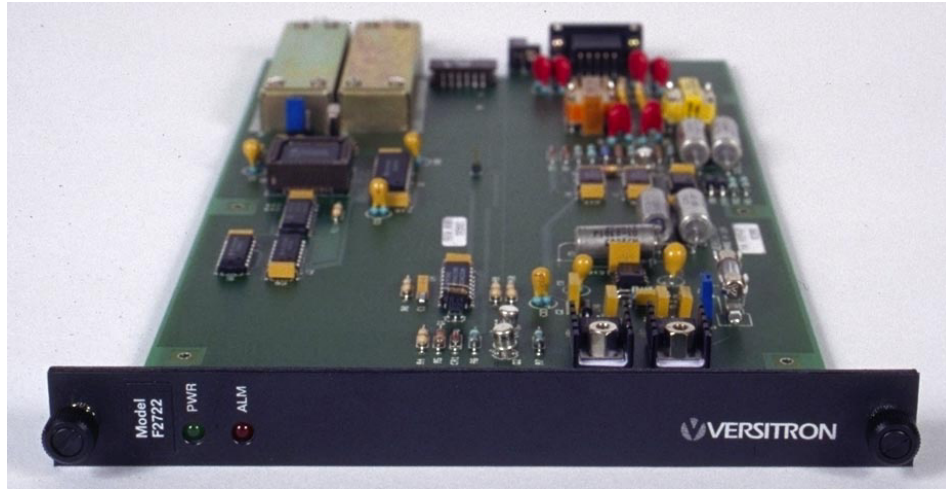


F272X

FOM II Series 4-Wire TeleData Fiber Optic Modem



Model	F2722	F2724	F2725
Wavelength	MM 850nm	MM 1300nm	SM 1300nm
Connector	ST	ST	ST
Operating Range	2km	6km	14km

GENERAL DESCRIPTION

VERSITRON FOM II Series Model F272X Group 4-Wire TeleData Fiber Optic Modems are 4-wire single line teledata modems providing one telephone and one data interface. The F272X can be used to provide an intercom link, PA system, or other 4-wire analog service. It can also be used for single channel RS-485/422 data transmission. The F272X modems can be used to multiplex analog and digital signals to extend a telephone and/or data (RS-485 or RS-422) link over duplex fiber optic cable. ST connectors are standard for the fiber optic interface. Several different configurations are offered to accommodate a wide variety of fiber optic needs.

These modems are available with 850nm multimode (MM) LEDs for distances up to 2km (1.25 mi / 6,600 ft), with 1300 MM LEDs for distances up to 6km (3.73 mi / 26,400 ft), or with 1300nm single mode (SM) LEDs for distances up to 14km (8.7 mi / 46,000 ft). Housing options include a single card standalone enclosure, and 2-slot or 20-slot 19" rack-mount chassis. The 20-slot chassis is powered by AC150W power supplies and may utilize 2 power supplies for redundancy. Each modem installed in either the single card enclosures or in 2-slot chassis requires an AC to DC power adapter.

FEATURES

VERSITRON FOM II Series F272X TeleData Modem's digitizing process allows for a fully transparent fiber optic isolation of the audio path. This digitizing process also provides reliable optical isolation for use with STU IIIs up to 9600 baud data transmission.

The F272X includes LED status indicators: PWR (green) – Indicates operating voltage is present at the power interface connector. ALM (red) – Indicates a loss of traffic, an alarm condition.

SPECIFICATIONS

General

Model	F272 * ¹
Dimensions	7 x 1 x 11 in. (H x W x L); (17.8 x 2.1 x 27.9 cm)
Weight	0.34 kg (12.0 oz)
Operating Temperature	0° to 50°C (32° to 122°F)
Storage Temperature	-40° to 70°C (-40° to 158°F)
Humidity	Up to 95% relative humidity (noncondensing)
Altitude	Up to 10,000 ft

Note: *¹ x is replaced with 2 for 850nm MM LED, 4 for 1300nm MM LED, or 5 for 1300nm SM LED.

Electrical Interface

Model	F272x * ¹
Power Requirements	12VDC / 1.0A
Copper Interface Connector	DB9
Audio Signal	300Hz to 3.4Khz
Data Signal	115 Kbps asynchronous
Idle Channel Noise	-55dBm
In-band Spurious	-40dBm
Out-band Spurious	-30dBm
Talk Battery	45 to 50VDC
Loop Current	20mA max (off hook)
Line Impedance	600Ω

Note: *¹ x is replaced with 2 for 850nm MM LED, 4 for 1300nm MM LED, or 5 for 1300nm SM LED.

Fiber Optic Interface

Model	F2722	F2724	F2725
Wavelength	Multimode 850nm LED	Multimode 1300nm LED	Single Mode 1300nm LED
Connector	ST	ST	ST
Link Budget	>20 dB	>20 dB	>20 dB
Operating Range	2km / 1.25mi / 6,600ft	6km / 3.73mi / 12,200ft	14km / 8.7mi / 46,000ft
Fiber Cable	50/125, 62.5/125, 100/140μM * ²	50/125, 62.5/125, 100/140μM * ²	8/125, 9/125, 10/125μM * ³

Note: *² Multimode tests performed on 62.5/125μM fiber cable. *³ Single Mode tests performed on 9/125μM fiber cable.

Accessories

Model #	Description	Weight
HF-1	Single card standalone enclosure. 7.1"W x 1.3"H x 11.6"L (18 x 3.3 x 29.5 cm)	0.5 kg (18 oz)
HF-2SS	2-slot 19" rack mount chassis. 19"W x 1.7"H x 13.8"L (48.3 x 4.3 x 35.1 cm)	1.2 kg (40 oz)
HF-20	20-slot 19" rack mount chassis. 19"W x 7.1"H x 11.6"L (48.3 x 18 x 29.5 cm)	2.1 kg (73 oz)
AC150W	Power supply / system monitor. Two recommended for redundancy. (Used with HF-20.)	1.2 kg (43 oz)
ADPHF01	Blank panel, single slot.	0.05 kg (2 oz)
ADPHF02	Blank panel, double slot.	0.09 kg (3 oz)

PSAC08	Power adapter, 110vac to 12vdc/1A, (US). (Used with HF-1 and HF-2SS.)	0.48 kg (17 oz)
PSAC09	Power adapter, 220vac to 12vdc/1A, (VDE). (Used with HF-1 and HF-2SS.)	0.54 kg (19 oz)

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