

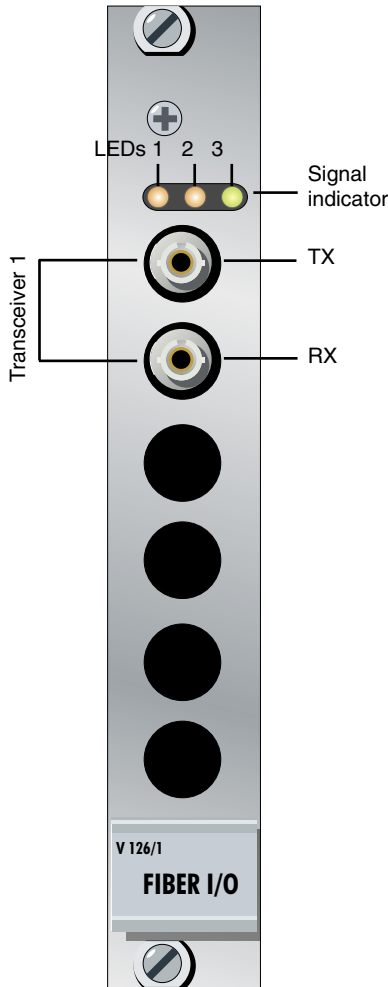


Description

The fiber I/O plug-in card V 126/1 is an optical input and output card for all fiber optical connections within a VADIS system. The card has 1 transceiver for the reception/transmission of 64 mono channels per fiber optic connection. Each of these channels can be routed to any of the 256 VADIS frame channels and then redistributed to any other fiber optical connections. Each fiber optic channel can carry audio signals with 24 audio bits, 6 information bits and 2 bits for internal, serial information.

The fiber I/O card is designed for the use in VADIS mainframes.

In order to increase the fiber optic link's span length the transceivers of the V 126/1 can be optionally equipped with laser diodes. For details please contact factory tech support.



Meaning of signal indicator LEDs

Table with 3 columns: LED 1 (orange), LED 1 (orange), LED 3 (green) and 2 rows of meaning descriptions.

SIX

Technology by KLOTZ DIGITAL

Specifications subject to change without notice



1601 JACK MCKAY BLVD. / ENNIS, TEXAS 75119 U.S.A. TELEPHONE: (800) 876-3333 / FAX (800) 765-3435

AtlasSound.com



Specification

General data

Supply voltage	5 V
Maximum supply current	1100 mA
Optical power budget	16.9 dBm typ. @ 62.5/125 μ m, EOL 11 dBm min. @ 62.5/125 μ m, EOL 14.9 dBm typ. @ 50/125 μ m, EOL 7.5 dBm min. @ 50/125 μ m, EOL
Length of connection	2 km, typ. For exact length of connection calculate with power budget.

Data, TX opt.

Number of channels	64
Word length/channel	32 bit (max. 24 audio bits, 8 bit additional information)
Data rate	125 Mbit/s max. (NRZI encoding)
Optical output	
- Wavelength	1300 nm
- Average optical power	-16 dBm typ.
- Jitter	0.3 ns (p-p)
Fiber	Multimode, 50/125 μ m, 62.5/125 μ m
Connector	ST
Current consumption	87 mA typ. (1 transmitter, 64 channels)
Supply voltage	3.3 V \pm 10%

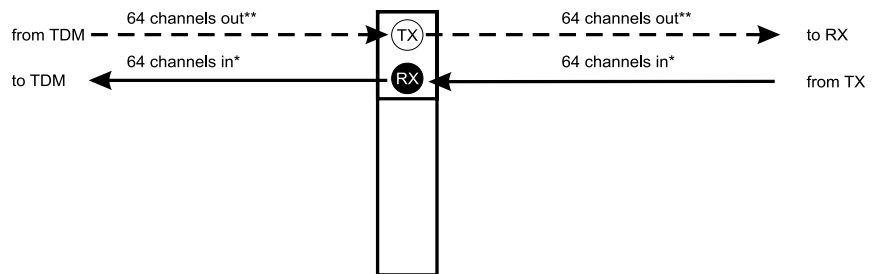
The encoding scheme is based on the ANSI X3T9.5 (FDDI) committee's 4 bit / 5 bit (4B/5B) code. Further NRZI is used for encoding.

Data, RX opt.

Number of channels	64
Word length/channel	32 bit (max. 24 audio bits, 8 bit additional information)
Data rate	125 Mbit/s max. (NRZI encoding)
Optical input	PIN photodetector
- Wavelength	1300 nm
- Average sensitivity	-35 dBm typ.
Fiber	Multimode, 50/125 μ m, 62.5/125 μ m
Connector	ST
Current consumption	133 mA typ. (1 receiver, 64 channels)
Supply voltage	3.3 V \pm 10%

The encoding scheme is based on the ANSI X3T9.5 (FDDI) committee's 4 bit / 5 bit (4B/5B) code. Further NRZI is used for encoding.

In the following the fiber I/O card's signal flow of the incoming and outgoing signals is shown by means of a diagram.



* incoming signals, not necessarily identical with outgoing signals** outgoing signals, not necessarily identical with incoming signals

Specifications subject to change without notice



1601 JACK MCKAY BLVD. / ENNIS, TEXAS 75119 U.S.A.
TELEPHONE: (800) 876-3333 / FAX (800) 765-3435

AtlasSound.com