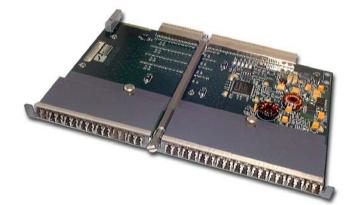




CHEETAH SERIES FIBER I/O OPTION MODULES





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ENGINEERING PRODUCT ADDENDUM

This <u>Engineering Product Addendum</u> will address the Cheetah Series fiber-optic input and output modules (see Figure 1), which provide a fiber input interface and an interface for fiber outputs that includes copper, BNC-type outputs for the various Cheetah Series chassis configurations.

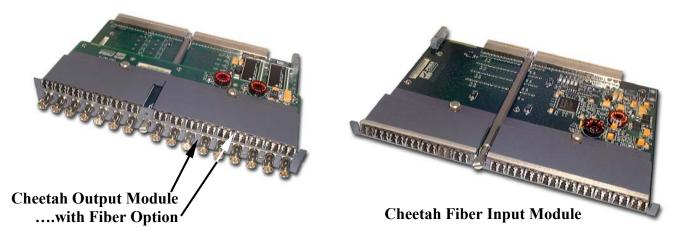


FIGURE 1: Cheetah Series Fiber Optic Modules

- **PESA** option modules include BNC, DAC, Fiber, and HD to SD Down-converter, which are interchangeable with the output modules as follows:
 - <u>HD Output Modules</u> can include the BNC Option, the Fiber Option, or the HD to SD Down Converter Option
 - <u>SD Output Modules</u> can include the BNC Option, the Fiber Option, or the DAC Option.

Cheetah Series Fiber Optic Modules (Cards) Features

- 16 Input or Output signals per card
- 3Mb/s up to 1.5Gb/s transport
- 1310 nm (nanometers) Transmitter optical wavelength
- Accepts either 1310nm or 1550nm Receiver optical wavelengths
- Can be used with third party digital transmission TX/RX modules
- I/O cards are designed for single-mode operation, which use SFF modules that accept standard fibers terminated with LC-type connectors
- Fiber modules fit all Cheetah frames 64X up to 512X



Cheetah Series Fiber Input Module (P/N 81-9065-2319-0) Overview

This Cheetah Series Fiber Input Module (see Figure 2) was designed for single-mode applications of fiber-optic receiving technology, which provides a transparent transition from optical signals to electrical signals. All inputs can accept optical signals up to, and including, High Definition (HD) as per the SMPTE 292 Standard.

These modules are plug-in, stand-alone type cards that fit Cheetah Series chassis configurations. They include 16 EMI-shielded input port connectors (see Figure 3) and a specially designed shaft for precise card insertion and withdrawal.

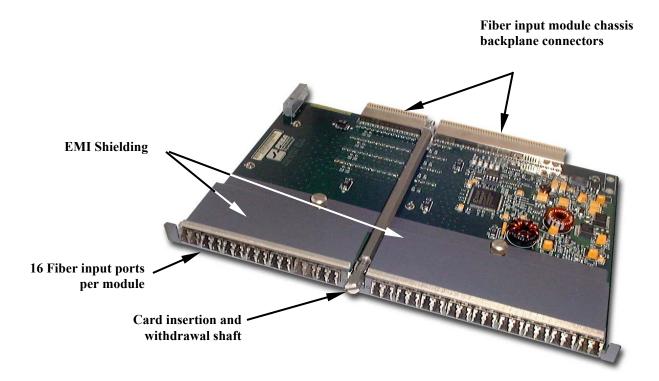


FIGURE 2: Cheetah Series Fiber Input Module (full view)



The Cheetah Series Fiber Input Module's connection ports are depicted in Figure 3.

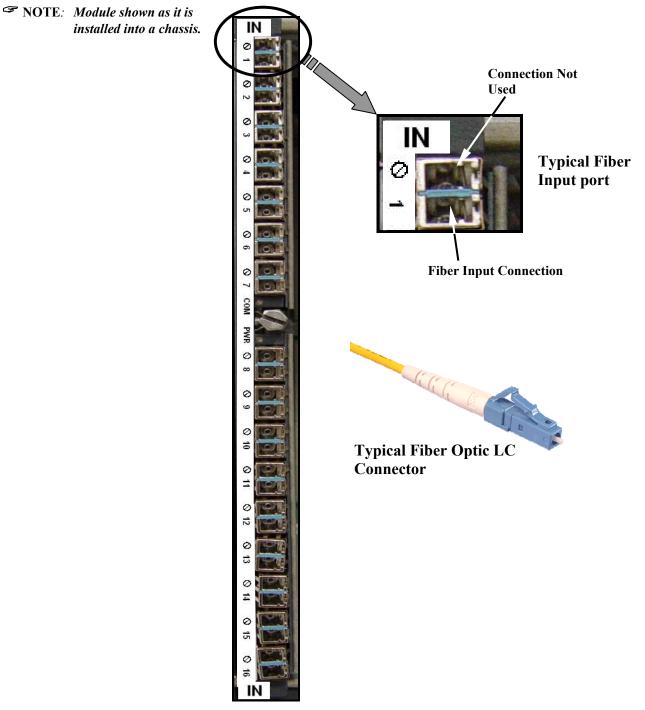


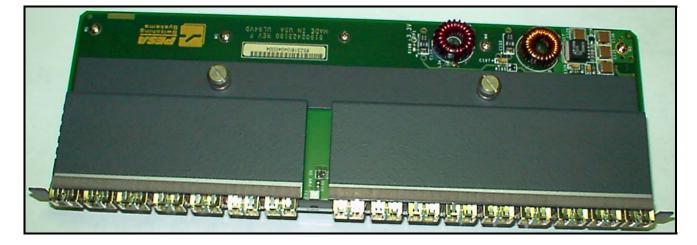
FIGURE 3: Fiber Input Module Connections and Pin-outs



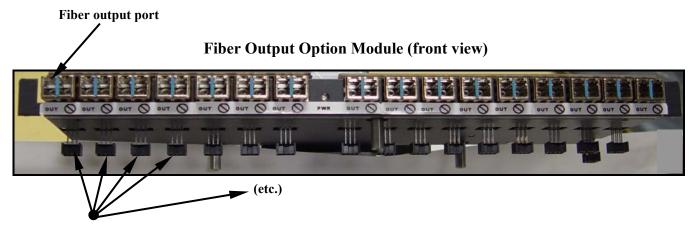
Cheetah Series Output Option Fiber Module (P/N 81-9065-2318-0) Overview

Typically, this module is ordered as an assembly, which the fiber output board is connected and mounted to either an SD or Multi-rate, 16-port, BNC-type output module.

This Cheetah Output Option Fiber Module (see Figure 4) was designed for single-mode applications of fiber-optic output technologies, which provides a transparent transition from electrical signals to optical output signals. All outputs can provide optical signals up to, and including, High Definition (HD) as per the SMPTE 292 Standard.



Fiber Output Option Module (top view)



Connectors for mounting on an SD or Multi-rate output board (module)

FIGURE 4: Cheetah Series Fiber Output Option Module



Cheetah Output Option Fiber Module Assembly

The following figures (see Figures 5 and 6) depict the individual components and structure of the Cheetah Output Option Fiber Module. The Fiber Output Option module can be mounted to either the SD or Multi-rate Output modules.

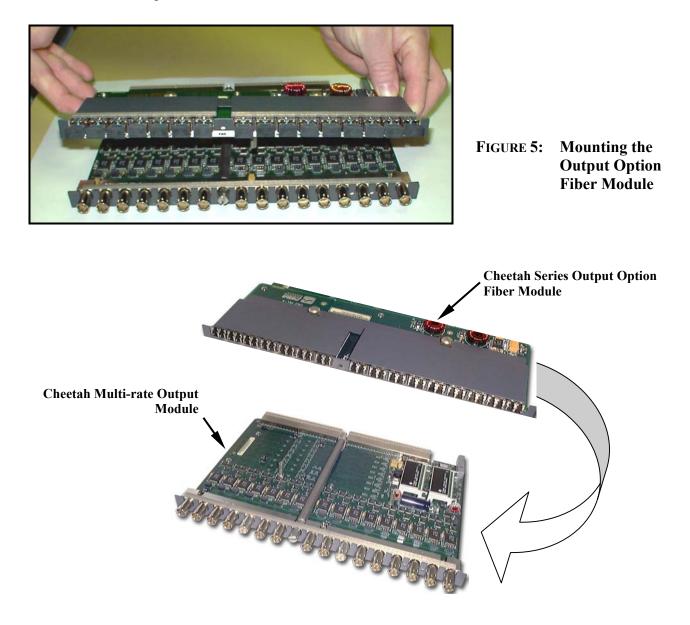


FIGURE 6: Cheetah Output Option Fiber Module Assembly



The assembled modules (see Figure 7) are plug-in assemblies that fit Cheetah Series chassis configurations. They include 16 EMI-shielded, optical output ports, 16 BNC-type output ports, and a specially designed shaft for precise card insertion and withdrawal.

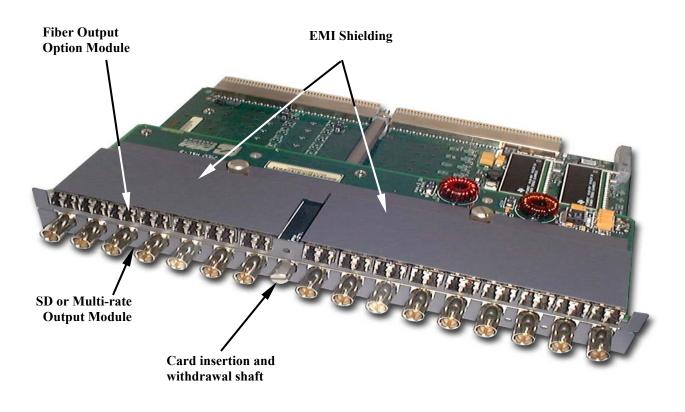


FIGURE 7: Cheetah Output Option Fiber Module

• NOTE: For further information about this module, refer to the previous section's (Cheetah Series Output Option Fiber Module) overview.



See Figure 8 for the Cheetah Output Option Fiber Module's output connections.

