

The Facility Interconnect

Up To 12Gbps – 64 Signals – 1RU Per Site



Product Is Equipped With 16 SFP Cages Standard; Expands To A Total Of 32 SFP Cages Using Optional 16 SFP Cage Port.

- ▣ Fiber Transport
- ▣ Control
- ▣ Route
- ▣ Convert
- ▣ Distribute

The Ultimate Interconnect Tool

A Multitude Of Tools In A 1-RU Package

- ▣ Route any input to any output, distribute, convert, re-clock and monitor.
- ▣ Includes full 32 x 32 router for extreme configuration flexibility.
- ▣ 16 MSA SFP cages with simultaneous I/O, up to 32 with option card, in a 1RU frame.
- ▣ Advanced signal redundancy with auto-switching to any chosen input.
- ▣ Every SFP port is bi-directional & hot-swappable.
- ▣ Works with any MSA SFP; not proprietary.
- ▣ All output ports are re-clocked.
- ▣ Control via BarnStudio PC based software, Web Server interface, TELNET and SNMP or 3rd party control systems.
- ▣ Supports up to 12G-SDI, Ethernet, ASI, AES, KVM, SDTI, MADi, HDMI, DVI, CVBS, CAM-CCU (including video, audio, tally, intercom, RCP) etc.

64 SIGNALS – 1RU
BTF1-41

Facility Interconnect: Route, Convert, Distribute, Control & Transport

Multiple Signal Types; One Device

Transporting a variety of signal types is a necessity for today's modern infrastructures. 12G-SDI 4K sources, ST2110, HDMI, Intercom, Dante, Ethernet connectivity for control, DMX...anything you can think of, needs to be transported efficiently and effectively. This is exactly what the BTF1-41 Fiber Transport system helps implement – multi-format, multi-signal – literally a signal agnostic device that can convert your signals to transportable fiber protocols and send them to their desired destination at the speed of light.

Feed Monitoring & Auto-Switching

Each input is monitored, and an auto-switch input can be defined for auto-switching in case of input failure. Auto switching facilities include definitions for delaying switching back to the failed input for a certain amount of time after the input has recovered.

8 Bi-Directional mini-BNC SFPs Shown

- Simultaneously operate as inputs or outputs.
- Handle any SDI signal up to 12G-SDI.
- Route to fiber or HDMI SFPs for conversion.
- Route to other BNCs for distribution.
- Use MSA copper BNC SFPs to expand BNC connectivity.
- Advanced signal redundancy with auto-switch to any input.

Multiplexing Fiber Feeds On One Strand

Using CWDM technology permits the multiplexing of up to 18 signals on one fiber strand. By using Barnfind's HiLo SFP technology, 32 signals can be transported (2 per frequency, one in each direction). The BTF1-41 shown below can be combined with 2 x 16-channel multiplexers (not shown) to transport 8 x 12G-SDI signals (in both directions simultaneously), bidirectional ST2110 single channel feeds and 4 ethernet lines over 2 fiber strands.

ST2110 Encapsulation/De-Encapsulation

- Frame supports single channel ST2110 operations.
- Encapsulation and de-encapsulation is supported.

Multiple Frames & Various Solutions

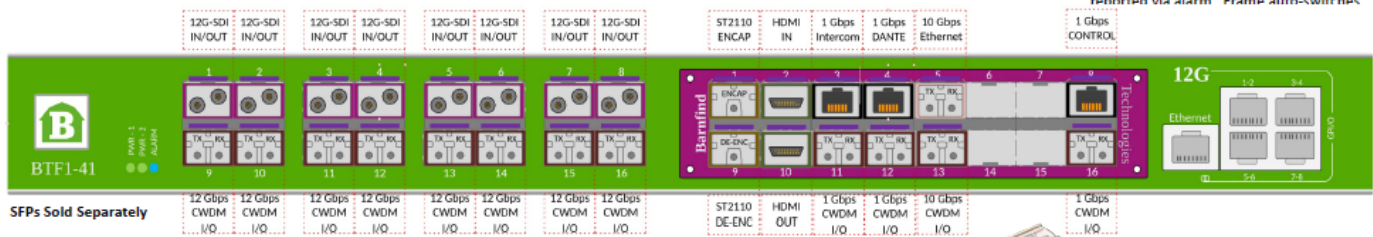
BARNIFND makes available a number of different frames in our BARNONE product line. Each frame offers a different number of BNC and SFP configurations to suit your specific needs. As well, depending on the number of signals that need transport and their topology, our BARNMINI product line offers the most efficient way of designing a connectivity/signal transport system.

Dual Power Supply

- Two power supply inputs for redundancy.
- Frame is provided with one power supply; 2nd supply optional.
- Power is monitored and failures are reported via alarm. Frame auto-switches

12Gbps x 64 - All Signals - 1RU

BTF1-41 12Gbps



SFPs Sold Separately

- ### Ethernet MSA SFPs
- Provide connectivity to Ethernet sources.
 - Route Ethernet SFP I/O to CWDM fiber I/O to connect Ethernet to remote location.
 - Facilitate Ethernet based communication as well as DMX and Intercom up to 1Gbps.
 - Multiple Ethernet connections can be transmitted and kept isolated.

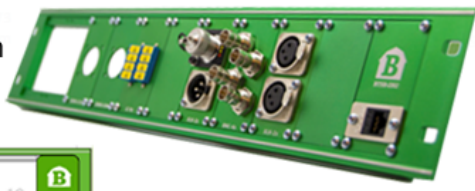
- ### Copper MSA SFPs
- SDI and composite analog SFPs are available.
 - Simultaneous and routable I/O operation.
 - Frame handles up to 12G-SDI MSA SFPs.
 - Analog SFPs can carry black-burst.

- ### HDMI MSA SFPs
- HDMI SFPs are either transmitters or receivers.
 - Use micro-HDMI connectors.
 - Route HDMI receiver to CWDM SFP for conversion.
 - Route Fiber SFP to HDMI transmitter for conversion.

- ### 12G-SDI MSA Fiber CWDM SFP Transceivers
- Frame accepts up to 12G-SDI transceivers; normal and CWDM.
 - Simultaneous Input & Output; Routable
 - Route to other SFPs or BNCs for conversion and distribution.
 - CWDM 12Gbps SFPs available in 16 frequency ranges help facilitate CWDM mux/demux operations.
 - HiLo SFPs also available in 18 frequency ranges (up to 3Gbps) but are bidirectional on one frequency expanding each frequency into bidirectional communications; use HiLo SFPs to expand system carrying capacity as needed.
 - SFPs ordered and sold separately (not included with frame).









- ### Ethernet & GPIO
- Control via BarnStudio PC based software, Web Server interface, TELNET or SNMP.
 - Frame includes GPIO, Tally and RS-232 transport; GPIO can be used to trigger switch to backup fiber transport line if equipped.
 - Also compatible/integrated with 3rd party control systems: Ross OpenGear/DashBoard, Skyline/Dataminer, ScheduALL, LAWO/VSM, BFE/KSC, DNf Control, TSL, RASCULAR, Black Magic, Axon Cerebrum, SAM SW-P-08 etc.

The Barnfind Stagebox break-out panel allows you to customize your own front panel based on the required connectors. The various selections of modules will be the connection points to one or more frames.



The BarnOne Frame & Variants

Various 3G-SDI Frame Configurations To Suit Your Application

	B BTF1-01 – 16x SFP port
	B BTF1-02 – 16x SFP + 16x BNC
	B BTF1-03 – 16x SFP + 8/16 CWDM
	B BTF1-04 – 32x SFP
	B BTF1-05 – 16x SFP + 2x 8/16 CWDM
	B BTF1-06 – 24x SFP + 8x BNC
	B BTF1-07 – 16x SFP + 8x BNC + 8/16 CWDM
	B BTF1-08 – 24x SFP port + 8/16 CWDM

The BarnMini Series

Tiny solutions to huge challenges.

These standalone solutions are ideal for smaller jobs where the BarnOne frames may not be required – they represent the “Swiss army knife” of the conversion and signal transport part of our industry.

A rackmount solution is available allowing you to mount several units together or, you can use these little boxes as “throw-downs” behind racks and inside ceilings and floors to solve conversion and signal transport challenges as needed.

The BarnMinis are ideal standalone solutions where no control is required and solve everything from a simple task to more comprehensive solutions where the BarnMinis are used in conjunction with BarnOne’ frames to empower complete distributed systems in lager facilities.

Challenge Solvers In A Small Package

- B BARNMINI-22: 12Gbps SFP – SFP Converter with Control**
- B BARNMINI-12: 12Gbps SFP – SFP Converter**
- B BARNMINI-11: 12Gbps Coaxial To SFP Converter**
- B BARNMINI-08: Optical Splitter**
- B BARNMINI-07: Optical Multiplexer**
- B BARNMINI-06: Optical Changeover**
- B BARNMINI-05: GPIO & Serial Data To Ethernet Converter**
- B BARNMINI-04: SFP – HDMI Converter**
- B BARNMINI-03: HDMI – SFP Converter**
- B BARNMINI-02: 3Gbps SFP – SFP Converter**
- B BARNMINI-01: #Gbps Coaxial To SFP Converter**



BTF-Mini-16 Houses Up To 16 BarnMinis & Provides Power Supply For All 16 Units. Power Supply Is Included; Redundant Power Supply Is Optional.