



Fiber Optic Components

EHT PRODUCTS

Precision Integrators

Precision Continuous Integrator PCI1

Fiber Optic Components

1 Channel Fiber to BNC FR-1

1 Channel BNC to Fiber FT-1

8 Channel Fiber Receiver FR-8

8 Channel Fiber Transmitter FT-8

Interlock Controller ILC-16

Power and Switching

High Power IGBT Switching

Piezo/Puff Valve Drivers

30 kV Isolated Control Power

Services

Custom Pulsed Power Design

Ultra High Vacuum Design

Experimental Systems Design

Technology

High-Ionization Plasma Sources

Cubesat Micropropulsion

GPU Parallelized Computation

Fiber Receiver to BNC (FR-1)



The FR-1 Fiber Receiver to BNC interface unit from Eagle Harbor Technologies Inc. offers flexible and affordable fiber interfacing for typical laboratory control needs. Robust and reliable, the FR-1 is ideally suited for applications such as scope triggering when a fiber break is required for safety or noise concerns. Other applications include safe interfacing to BNC gated PSU inputs, interlock systems or any legacy system with 50 Ω BNC inputs. Housed in a powder-coated aluminum enclosure, the FR-1 is designed to last even in demanding environments. A 5 VDC wall transformer is included, which powers the device via the mini-jack power inlet. Indispensable for the complexities of the laboratory, where flexibility and setup portability is desired. For more permanent installation applications, see our FR-8/FT-8 1U multi-channel rack mount solutions. For a complete transmit/receive pair see the companion to the FR-1, the FT-1 BNC to Fiber Transmitter.

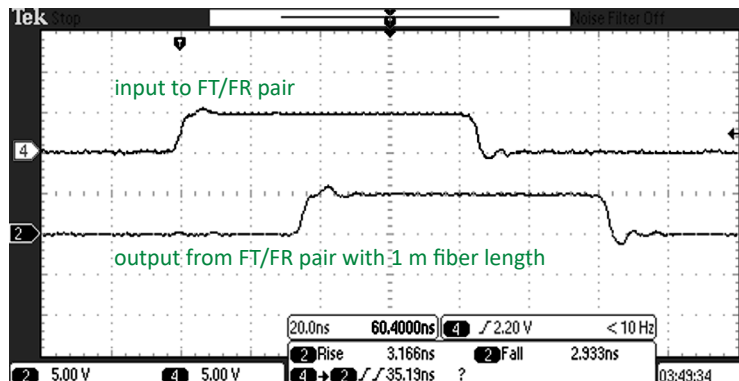
- Low cost, single channel unit allows for integration with any system needing a fiber to drive a 50 Ω BNC TTL interface
- Small form factor with a robust metal enclosure
- Uses robust inexpensive 2.2 mm jacketed plastic fiber with no end polishing or connector required

specifications

- 50 Ω output
- Rise/fall time < 5 ns
- Jitter < 2 ns
- In/out delay ~35 ns with FT-1/FR-1 pair at 1 m fiber length
- 4 ns to DC pulse lengths
- 1 1/8" h x 3 1/8" w x 1 1/8" d (max dims. includes connectors)

included in the box:

FR-1, 120 VAC to 5 VDC wall transformer, Quick Start Guide



Plot FT/FR pair rise/fall, delay into 50 Ω



Sky Blue Microsystems GmbH
Geisenhausenerstr. 18
81379 Munich, Germany
+49 89 780 2970, info@skyblue.de
www.skyblue.de



In Great Britain:
Zerif Technologies Ltd.
Woodberry House, 2 Woodberry Grove
Finchley, London N12 0DR
+44 115 855 7883, info@zerif.co.uk
www.zerif.co.uk