

# FIBERQUAD EVALUATION KIT

Evaluation and test kit for 4.25Gbps,  
10.3125Gbps, and 28.05Gbps FiberQuad

## DESCRIPTION

The FiberQuad Evaluation Kit provides system designers and integrators with all the parts to evaluate the performance of the FiberQuad product line. The fiber optic transmitter and receiver utilize PC tails to connect to through-holes on the evaluation board which would typically be used in a MIL-DTL-38999 with size 8 Quadrax cavities.

Each evaluation board includes:

- Interchangeable header slots for a transmitter or a receiver FiberQuad
- An external general-purpose microcontroller for calibration
- In-line switches for temporary enable of the TX\_Disable line
- Banana plugs power jacks (5V)
- SMA connectors for input/output signals
- 10-pin header intended for use with the Total Phase Aardvark I2C Adapter

Each kit comes with two LC to ARINC 801 cables, each connectorized with size 8 ARINC Adapters and LC to LC adapters. Also included is a fiber cleaner to keep the endfaces nice and clean! SMA cables, power cables, Total Phase Aardvark, and attenuators can be optionally supplied separately, contact Amphenol for more information.

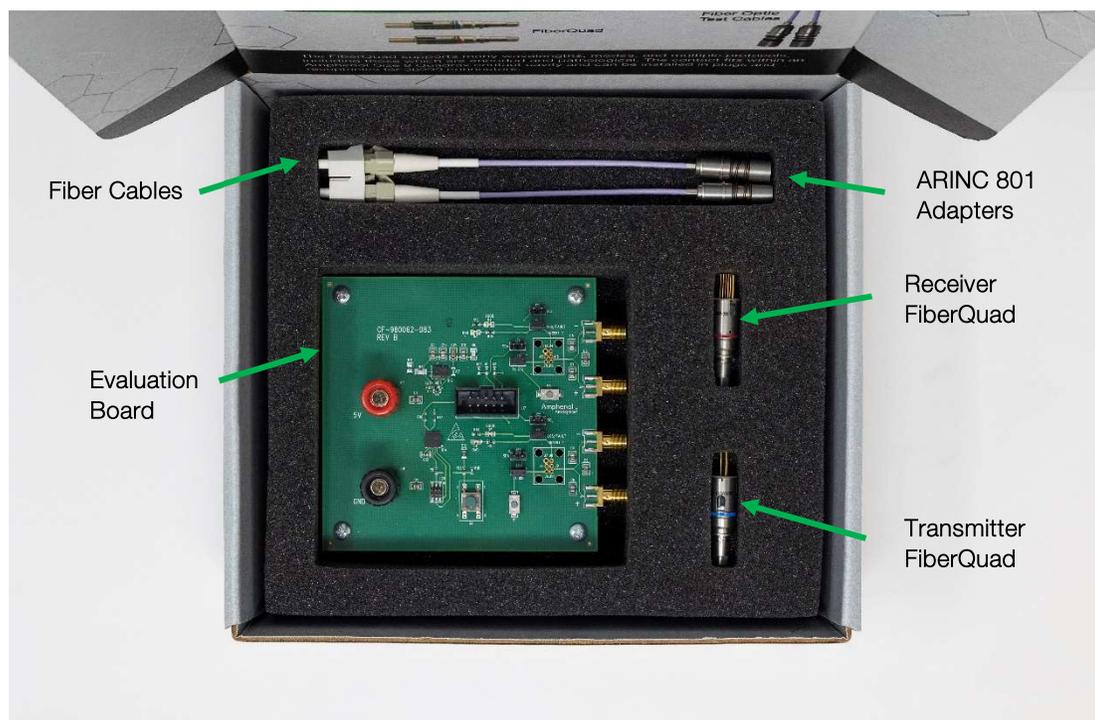


## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
CF-006008-072	1-4.25Gbps FiberQuad Evaluation Kit
CF-006008-073	1-10.3125 FiberQuad Evaluation Kit
CF-006008-074	1-28.05Gbps FiberQuad Evaluation Kit

## KIT CONTENTS

PART NUMBER	DESCRIPTION	-072	-073	-074
CF-980062-083	Eval board for 4.25 or 10.3125Gbps FiberQuad	1	1	
TBD	Eval board for 28.05Gbps FiberQuad			1
CF-170900-A03	Transmitter FiberQuad. 4.25Gbps	1		
CF-170900-B03	Receiver FiberQuad. 4.25Gbps	1		
CF-170900-E03	Transmitter FiberQuad. 10.3125Gbps		1	
CF-170900-F03	Receiver FiberQuad. 10.3125Gbps		1	
CF-170900-J01	Transmitter FiberQuad. 25.05Gbps			1
CF-170900-K01	Receiver FiberQuad. 25.05Gbps			1
CF-901200-098B	LC to ARINC801 OM3 Cable, 6in	2	2	2
CF-198201-000	Size 8 ARINC 801 Adapter	2	2	2
CF-010321-000	LC to LC Adapter	2	2	2
USCONEC 14649	IBC Brand Cleaner for 1.25mm ferules	1	1	1



## ABSOLUTE MAXIMUM SPECIFICATIONS

PARAMETER	SYMBOL	MINIMUM	TYPICAL	MAXIMUM	UNIT
Supply Voltage	Vcc	-	5.0	-	V
Operating Temperature	Top	-40	-	85	°C
Storage Temperature	Tsto	-55	-	95	°C

Refer to FiberQuad datasheet for further specifications of DUT.

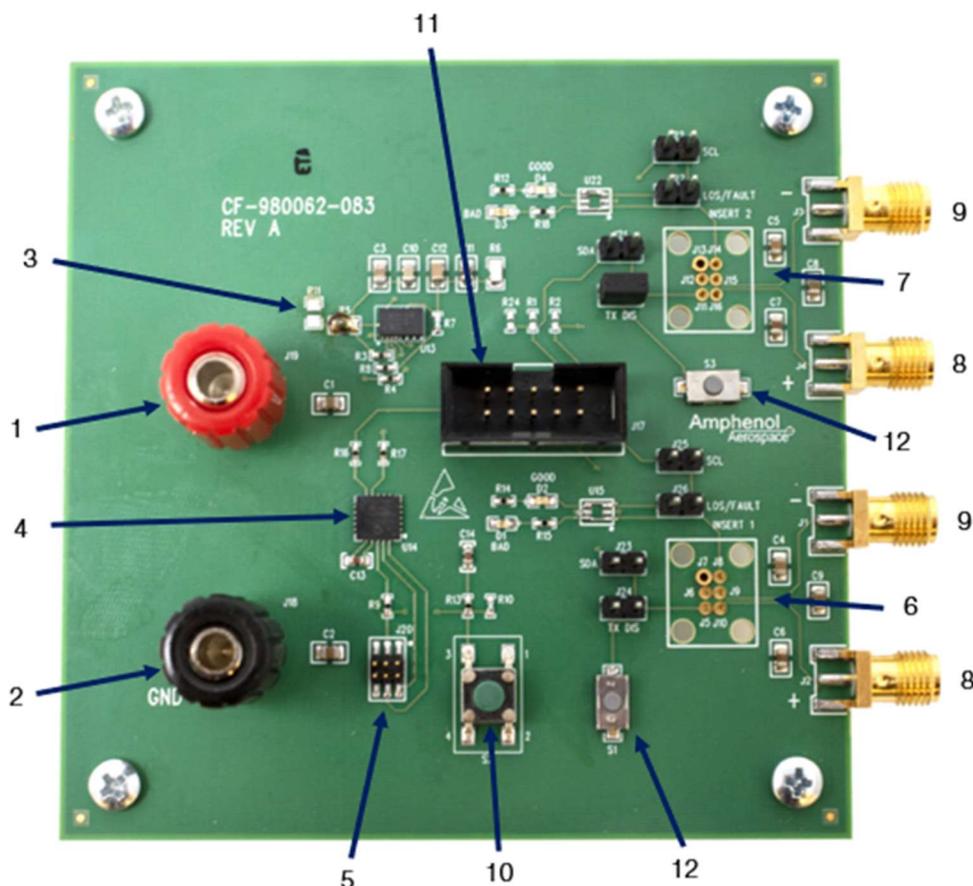


## PICTURE KEY

ITEM	DESCRIPTION	NOTES
1	5.0VDC Supply Voltage	5.0±.1 VDC. Banana Jacks shall be torqued to 4 in/lb ± .5 in/lb Note: Rev A boards incorrectly label this as 3.3V
2	Ground Return	Banana Jacks shall be torqued to 4 in/lb ± .5 in/lb
3	Voltage Regulation Circuit	
4	PIC Processor/ Microcontroller	
5	PIC Programmer Header	
6	Insert 1	Inserts are interchangeable for TX/RX and 4.25G/10.3125G
7	Insert 2	Inserts are interchangeable for TX/RX and 4.25G/10.3125G
8	Input/Output +	Connect 50Ω SMA Cable
9	Input/Output -	Connect 50Ω SMA Cable
10	PIC Reset Button	
11	I2C Header	Intended for use with Total Phase Aardvark I2C Adapter
12	TX_DIS Switch	Temporary enable or disable TX_DIS
13	Jumper Headers	Populate the below headers based on the speed and location of DUT

## JUMPER LOCATIONS

	INSERT 1	INSERT 2
4.25G	J24, J26	J27, J28
10.3125G	J23, J25	J21, J22



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