



050-382

PRODUCT BRIEF

GLENNAIR PCB MOUNT QUAD TRANSMITTER / QUAD RECEIVER EVALUATION BOARD
FOR GLENNAIR PCB MOUNT QUAD TRANSMITTERS/RECEIVERS (4 MOUNTING SCREWS)

REV	DESCRIPTION	DATE	APPROVED
1	Preliminary	07/21/2016	SZ/GC
2	Add BID File number	07/28/2016	GC
3	Remove Gap Pad P/N reference	09/24/2018	GC

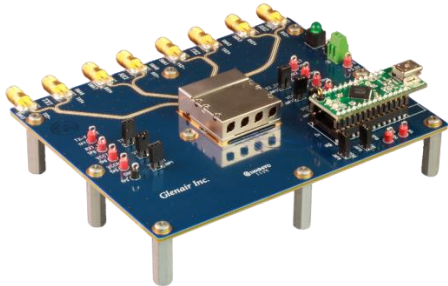
BF16U2-6230

THIS COPYRIGHTED DOCUMENT IS THE PROPERTY OF GLENNAIR, INC. AND IS FURNISHED ON THE CONDITION THAT IT IS NOT TO BE DISCLOSED, REPRODUCED IN WHOLE OR IN PART, OR USED TO SOLICIT QUOTATIONS FROM COMPETITIVE SOURCES, OR USED FOR MANUFACTURE BY ANYONE OTHER THAN GLENNAIR, INC. WITHOUT WRITTEN PERMISSION FROM GLENNAIR, INC. THE INFORMATION HEREIN HAS BEEN DEVELOPED AT GLENNAIR'S EXPENSE AND MAY BE USED FOR ENGINEERING EVALUATION AND INCORPORATION INTO TECHNICAL SPECIFICATIONS AND OTHER DOCUMENTS WHICH SPECIFY PROCUREMENT OF PRODUCTS FROM GLENNAIR, INC.

050-382 PRODUCT BRIEF

Evaluation Board

For Glenair PCB Mount Quad Transmitters/Receivers



The 050-382-EVALBOARD can be used to evaluate the 050-336 PCB Mount Quad Optical Transmitter, the 050-374 PCB Mount Quad Optical Transmitter (4 mounting screws), the 050-337 PCB Mount Quad Optical Receiver, and the 050-375 PCB Mount Quad Optical Receiver (4 mounting screws). The evaluation board has been designed for high data rate operation and incorporates 8 SMA connectors that interface with high speed 100 ohm differential lines which can support testing of products up to 10Gbps data rates.

The evaluation board is designed as an interface to allow evaluation of the Optical Transmitter and the Optical receiver on the board mount Quad Transmitter or Quad Receiver modules. Devices are powered through the 3.3V and GND connections.

For the transmitters, Fault condition (TXn-Fault) can be monitored for each individual transmitter (TX1, TX2, TX3, TX4) via test points and each individual Transmitter disables (TXn-Enable) can be controlled via Jumpers.

For the receivers, loss of signal (LOS_n) state can be monitored for each individual receiver (RX1, RX2, RX3, RX4) via test points.

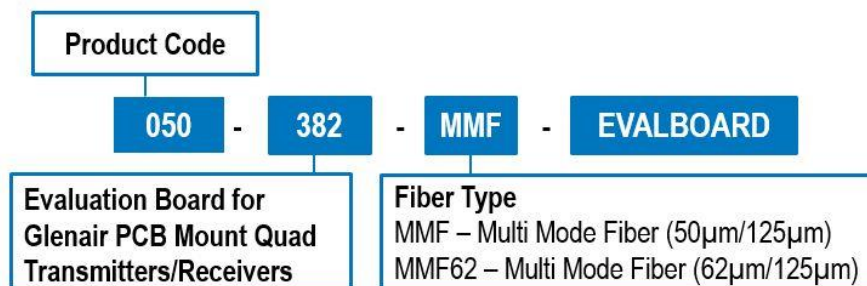
KEY FEATURES/BENEFITS

- Supports large variety of Dual Optical Transmitters/ Receivers suitable for Harsh Environment (Wide temperature ranges and Extremely High Vibration)
 - 0.1 Gbps to 10 Gbps

APPLICATIONS

- As an evaluation tool for Glenair Opto-electronic modules which are suited to Harsh Environment Applications such as: Airborne, Tactical Military, Oil and Gas, Railway and Shipboard
 - Ethernet, Fibre Channel, 1x, 2x, 4x, 8x, SFPDP, Aurora
 - Video (DVI, SMPTE, ARINC818, etc)

How To Order



050-382 PRODUCT BRIEF

Evaluation Board

For Glenair PCB Mount Quad Transmitters/Receivers



What is included with 050-382:

- The 050-382-MMF-EVALBOARD kit includes the following:
 - Evaluation board PCBA 691-05076
 - 050-382 Datasheet
 - 4 fiber optic MMF test jumper cables (1-2m, 50µm/125µm, ARINC 801 connector to LC connector)
 - Gap Pad 0.040" thick, Laird Technologies, Tflex 400 Series Thermal Gap Filler, Laird P/N: A15896-04 or equivalent
 - Gap Pad 0.050" thick, Laird Technologies, Tflex 400 Series Thermal Gap Filler, Laird P/N: A15896-05 or equivalent
 - Insertion/Extraction Tool for #16 Contacts
 - 1 LC to LC adapter

050-382-MMF-EVALBOARD	USED TO TEST THE FOLLOWING: 050-336 (Quad Transmitter, 850nm VCSEL MMF, 0.1-5 Gbps) 050-337 (Quad Receiver, 850nm MMF, 0.1-5 Gbps) 050-374 (Quad Transmitter (4 Mounting Screws), 850nm VCSEL MMF, 0.1-5 Gbps) 050-375 (Quad Receiver (4 Mounting Screws), 850nm MMF, 0.1-5 Gbps)
-----------------------	---

- The 050-382-MMF62-EVALBOARD kit includes the following:
 - Evaluation board PCBA 691-05076
 - 050-382 Datasheet
 - 4 fiber optic MMF test jumper cables (1-2m, 62µm/125µm, ARINC 801 connector to LC connector)
 - Gap Pad 0.040" thick, Laird Technologies, Tflex 400 Series Thermal Gap Filler, Laird P/N: A15896-04 or equivalent
 - Gap Pad 0.050" thick, Laird Technologies, Tflex 400 Series Thermal Gap Filler, Laird P/N: A15896-05 or equivalent
 - Insertion/Extraction Tool for #16 Contacts
 - 1 LC to LC adapter

050-382-MMF62-EVALBOARD	USED TO TEST THE FOLLOWING: 050-336 (Quad Transmitter, 850nm VCSEL MMF, 0.1-5 Gbps) 050-337 (Quad Receiver, 850nm MMF, 0.1-5 Gbps) 050-374 (Quad Transmitter (4 Mounting Screws), 850nm VCSEL MMF, 0.1-5 Gbps) 050-375 (Quad Receiver (4 Mounting Screws), 850nm MMF, 0.1-5 Gbps)
-------------------------	---

NOTE: In order to simplify attachment of the fiber cable assemblies to the module, please insert ARINC 801 connectors of the fiber cable assemblies into the 050-374 and 050-375 module before installing the module on the evaluation board. Also prior to removal of the fibers from the 050-374 and 050-375 module please remove the module from the evaluation board.

050-382 PRODUCT BRIEF
Evaluation Board
For Glenair PCB Mount Quad Transmitters/Receivers



Opto-Electronic Devices and additional Test cables sold separately: Many options can be supported.

- Glenair PCB Mount devices Selection Guide
 - http://www.glenair.com/opto_electronic/b.htm

- Fiber Optic Test cables as required:
 - MMF & SMF test cables can be configured to support all Glenair Opto-electronic components
 - FA03216: http://www.glenair.com/opto_electronic/pdf/b/fa03216.pdf