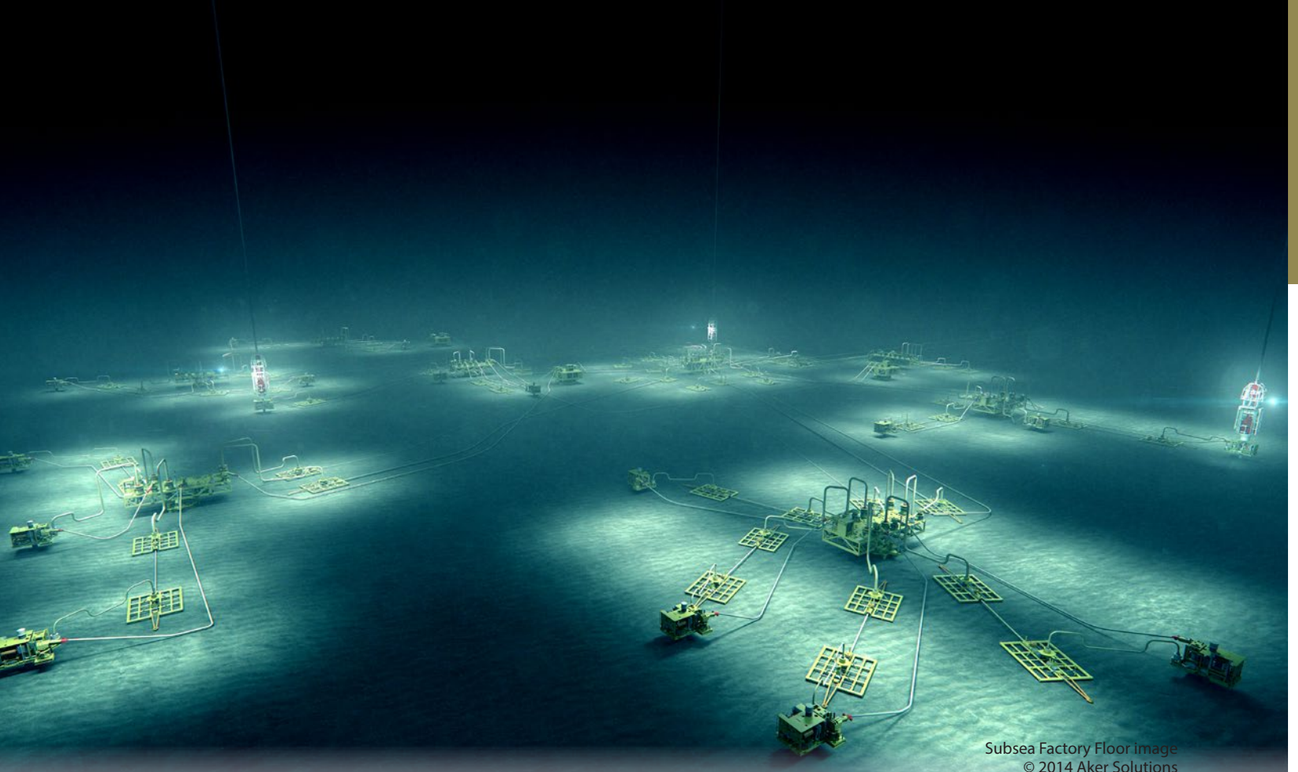

Subsea Factory Floor image
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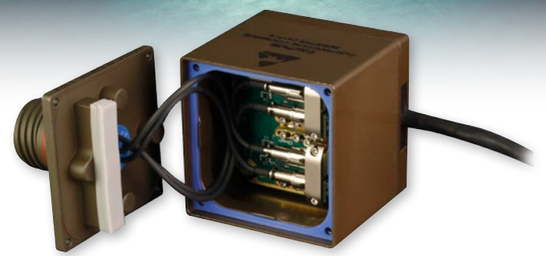
ETHERNET

Copper-to-Fiber Media Converters

Reduced form-factors for harsh-environment applications

Glenair offers turnkey harsh-environment media converters for in-line and select panel mount applications. The devices facilitate conversion of 10/100/1000BASE-SX/LX fiber optic gigabit Ethernet data streams to electrical signals servicing switches, routers, and other peripherals.

Designed for use in ruggedized applications such as geophysical, naval, commercial and military aerospace, these reduced form-factor electrical-to-optical transceivers deliver proven performance with significant size and weight savings compared to conventional form-factor technologies. Available for a wide range of fiber optic formats, including 1.25mm, 1.6mm, 2.0mm, and 2.5mm ferrules, in both singlemode and multimode, Glenair's complete range of media converters meets virtually every fiber-optic-to-copper application requirement.



- **Reduced form-factor devices for in-line conversion of electrical and optical signals**
- **Active cable versions that reduce the risk of damage to fiber optic interfaces**
- **Weight-saving technology that incorporates power and signal conversion functions**
- **Auto-negotiation 10/100/1000BASE-T to 100BASE-FX, 1000BASE-SX and 1000BASE-LX**
- **Advanced monitor & control functions via serial interface to facilitate network management and BIT**

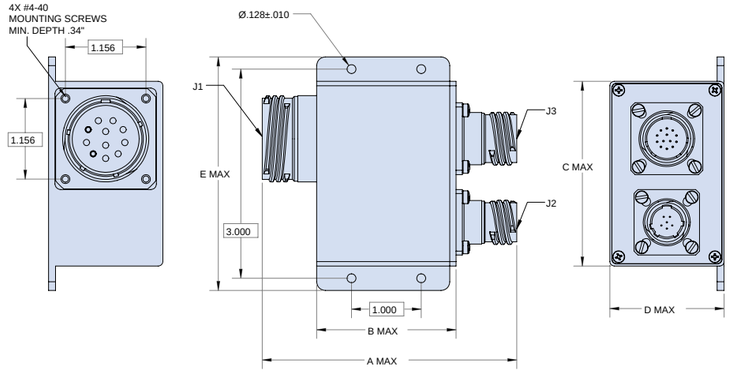
Copper-to-Fiber Media Converters for Ethernet Applications

PRODUCT SELECTION GUIDE

visit **glenair.com** for detailed product datasheets

EXAMPLE FUNCTIONAL BLOCK DIAGRAM FOR GLENAIR 050-105 ETHERNET MEDIA CONVERTER

050-105
10/100/1000BASE-T to 1000BASE-SX/LX Media Converter



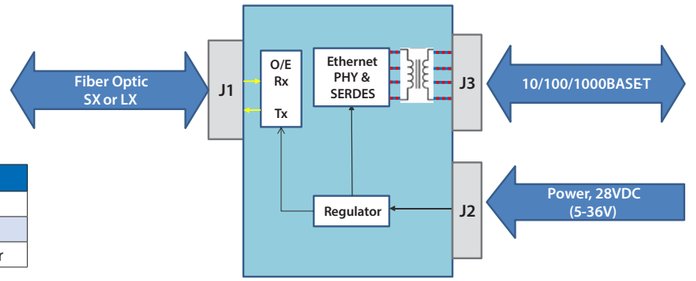
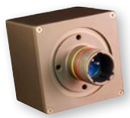


Table I: Signal Protocol

Code	Name	Medium
-SX	1000BASE-SX	Multimode Fiber
-LX10	1000BASE-LX10	Singlemode Fiber

	Part No.	Description		Part No.	Description
	050-101	1000BASE-T to 1000BASE-SX/LX Media Converter		**050-112**	10/100/1000BASE-T to SX, LX10, or FX Fiber Optic Ethernet, GFOCA Fiber Optic interface
	050-103	10/100/1000BASE-T to 1000BASE-SX/LX Media Converter with Mighty Mouse Connectors		**050-113**	10/100/1000BASE-T to SX, LX10, or FX Fiber Optic Ethernet, MIL-DTL-1560 interface
	050-104	10/100/1000BASE-T to 1000BASE-SX/LX Active Cable with Mighty Mouse Connectors		**050-115**	10/100/1000BASE-T to 1000BASE CWDM Media Converter
	050-110	10/100/1000BASE-T to 1000BASE-SX/LX, GFOCA, 38999 Quadrax (signal and BIT), 38999 (Power)		**050-117**	LRU Media Converter, Single or Dual Channel, 10/100/1000BASE-T to SX/LX Lightning Strike Protection DO160 level 3