

OPTIMIZED
FOR USE WITH
MIL-STAR™
HIGH-PERFORMANCE HOOKUP WIRE AND CABLE



Compliant pin brush-contact
connectors for legacy and
new design LRM module-to-
backplane applications



Glenair Line Replaceable Module (LRM) connectors are drop-in solutions for military and commercial avionics, missile systems, C4ISR, and other harsh-environment LRM module-to-backplane interconnect applications. Available in single bay, dual bay, and triple bay packaging, Glenair LRM brush contact connectors support both standard SEM-E size modules as well as custom design requirements. Fully qualified and intermateable with Amphenol Staggered Grid LRM products, the Glenair LRM solution introduces important performance improvements including precision-machined, gold-plate over nickel compliant pins and zero-FOD / zero electrical discontinuity weld-in-place brush contacts. Digital signal LRM module and backplane blind-mate connectors as well as mixed contact support for power, GPPO coax (SMPM), fiber optic (MT) inserts, and 270VDC power inputs available.

- Low mating and unmating forces
- High mating cycles
- Compliant pin board terminations on PC tails
- Single, dual, and triple-bay staggered-grid layouts: digital signal, power, RF, MT optical, and 270VDC contact
- Mechanical features include polarization keys, ESD shrouds, straddle-mount lead frames, and guide/ground pins

LOW INSERTION FORCE, HIGH DENSITY LRM Brush Contact Connectors



Staggered-grid backplane and module solutions
Qualified · intermateable · harsh-environment

ABOUT GLENAIR LRM AND BACKPLANE CONNECTORS

Glenair has fully qualified its Staggered Grid LRM interconnect series for reliable interoperability with existing industry products. LRM and backplane connectors manufactured by Glenair are equipped with superior performance brush contacts with precision-machined compliant pin terminations and zero-FOD weld-in-place brush contacts. The connectors are manufactured to standard SEM-E size formats with accommodation for common PWB and heat sink widths and thicknesses.

EMI SHIELD: Aluminum alloy 6061-T6 per AMS 4150; finish is hardcoat anodize per MIL-A-8625 with epoxy final coat. Ground tabs are chromate treated (iridite).

POLARIZATION KEYS: Stainless steel per AMS 5640; finish is black oxide per MIL-DTL-13924. Key retaining ring is Polyamide (nylon 12) with 50% glass filled fibers.

GUIDE PINS: Beryllium copper alloy per ASTM B196, finish is gold per ASTM B 488 over nickel per AMS-QQ-N-290.

ABOUT BRUSH CONTACTS

- Virtually zero fretting corrosion
- Long service life: tested to 200 mating cycles
- No micro-arching
- Zero FOD / zero electrical discontinuity welded brush construction
- Precision-machined compliant pin backplane termination
- Straddle-mount termination (module connector)
- Intermateable with Amphenol LRM

