

Satellite Signal Conversion

Diamond USA works closely with Micropac Industries of Garland, TX to connectorize their Common Optical Interface Node (COIN). The COIN is the first satellite dual channel, full duplex media converter to transform electrical SpaceWire signals into all optical signals. Micropac chose the space grade Mini AVIM® connector primarily for its exceptional environmental resistance characteristics, and its high-end optical performance. The optical fiber transmission offers immunity to the effects of electromagnetic interference, susceptibility, and EMP events.

Several COIN's will connect existing satellite payloads together, as well as communicate with ground telemetry signals. The system is slated for a 15-year GEO mission launching in the fall of 2021.



Diamond Mini AVIM® connector

Micropac COIN – SpaceWire Optical Media Converter

For more information, contact Diamond at (978) 256-6544 or visit www.diausa.com or Micropac Industries at (972) 272-3571 or visit www.micropac.com.

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