Glenair signal aggregation media converters integrate a set of compact optoelectronic modules to digitize and/or aggregate multiple common signal types, and combine them onto high-data-rate serial optical fiber channels.

- One high-speed optoelectronic interface can serve practically all signal types
- Ideal solution to enable optical rotary joints
- -40°C to +85°C operating temperature range
- Meets MIL-STD-810 Mechanical Shock and Vibration
- Meets MIL-STD-1344 immersion resistance
- Advanced monitor and control functions via serial interface to facilitate network management / BIT
RUGGEDIZED

Signal Aggregation Media Converters

Block diagram and features

SIGNAL AGGREGATOR FUNCTIONAL DIAGRAMS

1 - 10 GB/sec fiber-optic single link
Bonded links up to 40Gbps
Or bi-di single-fiber link for slip-ring applications

SIGNAL AGGREGATOR FUNCTIONAL DIAGRAMS

I/O signal: Digital, analog, video, data

I/O 1
I/O 2
I/O N

Aggregate, Packetize
Serialize/Deserialize

A/D
Regulator

FO Tx
FO Rx

Power

SERIAL
- RS422/RS485
- RS232
- USB
- MIL-STD-1553
- CAN Bus
- ARINC 429
- SMBus
- I2C
- SPI
- Ethernet 10/100/1000

VIDEO
- DVI
- HDMI
- SMPTE SDI
- SMPTE HD-SDI
- SMPTE 3G-SDI
- ARINC 818
- VGA

ANALOG
- RF/IF Sampling
- Analog Sensor Data

Contact the factory for other signal formats and custom configurations

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