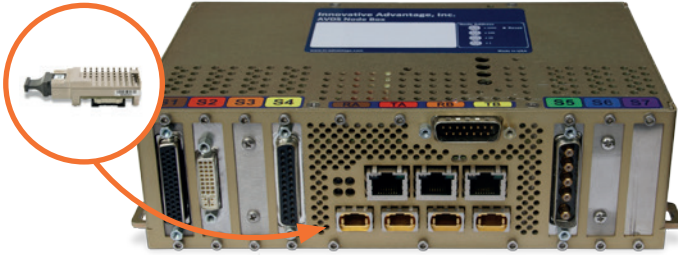
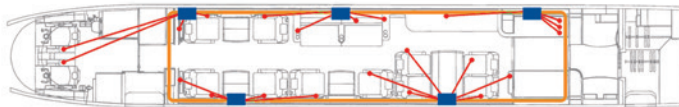


## In-flight entertainment and connectivity



AVDS node for IFEC applications use SNAP12 transceivers.



● Input/output    ■ AVDS node    — Optic fiber network  
Example of distributed network topology enabled by SNAP12 transceivers.

### Benefits of using optical transceivers

- Ability to distribute uncompressed video - the highest quality distribution possible
- Reduced aircraft wiring
- Reduced system weight
- Fault tolerance
- EMI/EMC and lightning tolerance over copper interconnects
- 12 independent parallel optical channels
- Data rate : 6.25 Gbps or 3.125 Gbps
- Industrial (-40°C to 85°C) and commercial (0°C to 70°C) operating temperatures
- 100 mW/ch typical power consumption
- Card edge mountable
- Standard MPO/MTP interconnect
- Single 3.3 V power supply
- OM3 and OM4 multimode fibers supported
- Data protocol agnostic

The SNAP12 transmitter and receiver modules enable high performance multichannel optical links designed for high-speed data communications and computing applications.

The modules operate at up to 6.25 Gbps per channel in commercial and industrial temperature ranges. The interconnect distance is up to 300 m.

### Testimony from Innovative Advantage

AVDS offers less cable, less weight, less mess. AVDS is the only system that uses a distributed network topology without compromising on signal quality by compressing.

AVDS routes signals at their full uncompressed bandwidth (up to 3 Gbps per signal) meaning you get the very best possible quality. No latencies means those video games and presentations are now welcome on the network!

The AVDS redundant ring architecture provides unparalleled fault tolerance. The fiber backbone reduces weight and is not susceptible to EMI noise induction or ground loops. Now you can watch that Blu-Ray movie with uncompromised clarity!



#### Transceiver used in this application:

SNAP12 embedded transceiver

[www.reflexphotonics.com](http://www.reflexphotonics.com)

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1.514.842.5179 (Montreal) • 1.408.715.1781 (USA)

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