Medallion 8100 Series DOCSIS 3.1 L-EML^{TM} Externally-Modulated CATV Transmitters

C-Type/J-Type/F-Type/S-Type Transmitters
The Medallion 8100 series is a family of state-of-the-art, high-performance DOCSIS 3.1 compliant

1550 nm externally-modulated CATV transmitters that leverages a breakthrough optical device innovation at their core, the Linear Externally Modulated Laser (L-EML™), invented, developed and manufactured exclusively at EMCORE. The L-EML™ device consists of a high power, low-noise, narrow linewidth laser combined with a proprietary highly-linearized modulator in a monolithic assembly. It enables long distance optical link performance approaching traditional lithium niobate-based externally-modulated transmitters, but is more cost-effective for its targeted applications.

Packaged in a convenient 1RU housing, the 8100 series optical transmitters couples high optical output powers, up to 12.0dBm, with low optical linewidth resulting in unmatched performance. The unique EMCORE optical modulator, combined with proprietary predistortion circuitry, provides superior CTB and CSO performance with SBS suppression levels of greater than 21dBm. Advanced features such as built in field adjustable SBS control allows these transmitters to be quickly optimized in the field for any link or application without the need to procure specifically tuned transmitters. This affords the system designer a level of flexibility previously unknown in the CATV market place.

The MEDALLION 8100 series provides options to accommodate a broad range of network architectures. The series includes C-Type, J-Type, F-Type and S-Type transmitters.

For more information please [Email Us](#)

Features

- Revolutionary Linear Externally Modulated Laser (L-EML™) technology
- Ultra-narrow linewidth laser combined with proprietary highly-linearized modulator in a monolithic assembly
- Supports DOCSIS 3.1 standard, backward compatible to DOCSIS 3.0
- QAM or OFDM loading to 1218 MHz
- Dual power supplies, redundant & hot swappable
- Front panel RF test point
- SNMPv2 control interface
- Vacuum fluorescent status display
- OMI/RF gain adjustment
- AGC select: CW, video, manual (No AGC)
- Industry-leading field adjustable SBS Suppression

SatelliteDish.com **(954) 941-8883**