



Press Release

For Immediate Release
July 21, 2002
Tucson, AZ

NP Photonics Ships World's First Erbium Micro Fiber Amplifier (EMFA) Products

NP Photonics has shipped the world's first miniaturized optical fiber based amplifier products for telecommunications. These unique products use NP Photonics' state-of-the-art Erbium Micro-Fiber Amplifier (EMFA) technology. The cost effective EMFA technology uses a proprietary erbium-doped glass to produce high optical gain over just a few centimeters of fiber, rather than over many meters, as with traditional EDFAs.

The initial products shipped are the Scorpio Amplet MMP-7012, and the Scorpio Gainlet MMP-7010. The Scorpio Amplet, offering a high level of integration, mates the EMFA gain fiber and semiconductor pump laser together with all the necessary passive components, drive electronics and control software to make a turnkey amplifier system. This product includes feedback control electronics incorporating photodiode monitoring, isolation and optional gain flattening filters. Additional intelligence options can be added with a software upgrade. The Telcordia compliant Scorpio Amplet delivers 15 dB of gain over the entire C Band, offering similar functionality to traditional EDFA's for metro and access applications, but in a much smaller, more cost efficient package. Higher gain amples based on EMFA technology will be available in the future.

The Gainlet is a gain block consisting of an EMFA gain fiber efficiently coupled to a semiconductor pump laser. It delivers customizable gain over the entire C Band and is an ideal building block for channel and band amplification, as well as for integration into DWDM components as loss compensators. The Scorpio Gainlet is a flexible product that can readily be customized to meet the specific needs of OEM component and system builders.

Founded in 1998, NP Photonics is the originator of the Erbium Micro Fiber Amplifier (EMFA) technology and is dedicated to the design manufacture and marketing of intelligent, low cost, compact fiber amplifiers and fiber amplifier arrays. The company is developing a wide family of products based on its EMFA technology platform.

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