



Press Release

## **3S PHOTONICS Unveils a New Series of High Efficiency 980nm Pump Laser Modules with Dramatically Reduced Power Consumption**

**Nozay, March 23, 2009** – 3S PHOTONICS, the world leading manufacturer of laser chips, optical discrete modules and components for telecommunication networks, today unveiled its new “High-Efficiency 1999 HEP” series 980nm pump laser modules, at OFC/NFOEC in San Diego.

Operating at an internal temperature of 45°C, the new 1999 HEP 980nm pump modules can deliver up to 500mW ex-fiber output power while enabling over 40% reduction in power consumption compared to existing pump offerings. This drastic energy saving, enabled by very low operating current levels will allow the design of a new class of EDFAs - Erbium Doped Fiber Amplifiers - to be adopted in environments with very stringent power requirements.

*“By introducing the High-Efficiency 1999 HEP Series, we clearly provide our customers with the solution to design low energy consumption but powerful EDFAs which meet current market’s expectations for low running costs, higher bandwidth, higher reliability and green networking”,* said Yannick Bailly, Vice President of Marketing and Product Management at 3S PHOTONICS.

The 1999 HEP pump modules incorporate the high-reliability submarine qualified 1999 LCv2 GaAs laser chip powering the current generation of 3S PHOTONICS submarine pumps that are widely deployed throughout the globe. This laser chip, made in 3S PHOTONICS’ Nozay is packaged in an industry standard hermetically sealed 14-pin cooled butterfly package, and is stabilized by a Fiber Bragg Grating (FBG) integrated into the fiber pigtail. The 1999 HEP offers stable performances over a wide dynamic range, with dramatically reduced power consumption, while delivering 25% extra power than the current “reduced power” pumps available to date together with a very high reliability level.

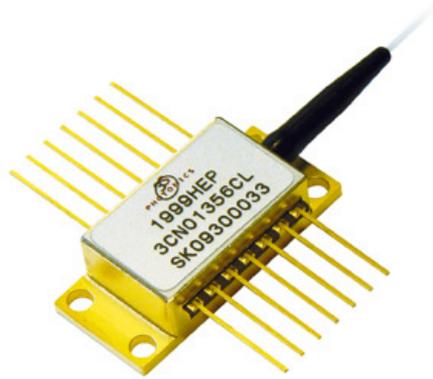
*“Through the launch of our terrestrial High-Efficiency Series pumps, we fully leverage the technological expertise and leadership acquired in the design of ultra-high reliability submarine un-cooled pumps. The 1999 LCv2 chip has been indeed designed to operate at 45°C without any thermoelectric cooler, which allows us to market a terrestrial pump with unparalleled features such as best-in-class output power, reduced power consumption and proven reliability”,* explained Yannick Bailly.

The 500mW 1999 HEP has been fully qualified according to Telcordia GR-468-CORE requirements. Product is available for customer samples and volume shipments are expected by June 09.

The introduction of the new 1999 HEP Series in the 3S PHOTONICS’ product portfolio allows the French-based manufacturer to position itself as a one-stop-shop supplier of ultra-high reliable “980nm” pump laser modules for both terrestrial and submarine applications, including 1064nm Seed lasers for industrial applications such as fiber lasers. Its comprehensive portfolio indeed includes all types of 980nm pump modules:

- ✓ Un-cooled Mini-DIL pump modules (1999 PLU Series)
- ✓ Mid-power cooled 14-pin Butterfly pump modules (1999 PLM Series)
- ✓ High-efficiency cooled 14-pin Butterfly pump modules (1999 HEP Series)
- ✓ High & Ultra-high power cooled 14-pin Butterfly pump modules (1999 CHP & 2000 CHP Series)

Each Series offers state-of-the-art performances with demonstrated best-in-class reliability and command the lowest FIT (Failure In Time) rate in the industry.



**Products samples are available now.**

#### **About 3S PHOTONICS**

3S PHOTONICS – formerly Alcatel Optronics – is a leading supplier of optical discrete modules for telecommunication networks. It designs, develops, manufactures and commercializes active components powered by in-house III-V optoelectronic chips based on both Gallium Arsenide (GaAs) and Indium Phosphide (InP) technologies and passive components using Fiber Bragg Gratings (FBG).

The 3S PHOTONICS renowned optoelectronic chip manufacturing plant of Nozay is a technological feat that is unique in the world as it brings together GaAs and InP technologies under the same roof.

Its product portfolio includes four product lines:

- \* Chips (lasers and detectors) and Front End Services
- \* Transmission Laser and Detector Modules
- \* Pump Laser Modules for terrestrial and submarine applications
- \* Filters, gain equalizers and pump stabilizers based on Fiber Bragg Gratings for terrestrial and submarine applications

With over 14 years of experience, the company takes advantage of its expertise and know-how to also address new markets, providing smart solutions for defense, industrial and medical applications.

Based in Nozay (Essonne near Paris), 3S PHOTONICS is run by Alexandre Krivine and Didier Sauvage. The company employs over 160 people, of which 130 are experts in the photonics industry.

[www.3Sphotonics.com](http://www.3Sphotonics.com)

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