

## **3S PHOTONICS Unveils a 500mW Version of its 1064nm Seed Laser Module for Fiber Lasers**

LASER WORLD OF PHOTONICS 2009  
**Booth 475**

**Nozay - June 15, 2009** - 3S PHOTONICS, the world-leading French manufacturer of laser chips, optical discrete modules and passive components for telecommunication networks, today unveiled the launch of the industry's most powerful CW and pulsed 1064nm cooled laser diode modules to be used as Seed Lasers for Fiber Laser applications.

Recognized industry-leader for submarine pump laser modules market, 3S PHOTONICS leverages its technological expertise and latest developments in the telecom area by releasing enhanced versions of its "1064 CHP Series" 1064nm laser diode modules, capable of delivering up to 500mW CW of optical power thru single-mode fiber, and intended for industrial applications:

- A CW version, with high PER values,
- A Pulsed version, stabilized with a narrow bandwidth Fiber Bragg Grating (FBG) located in the fiber pigtail.

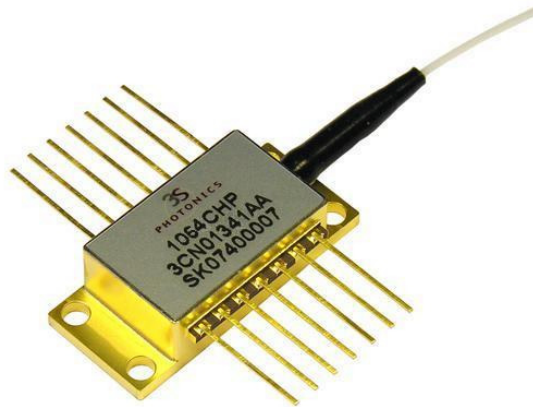
These seed laser modules have been characterized at very high operating peak currents up to 1.7A with 1µs/500Khz pulses. The modules have proven their long-term reliability in the pulsed-mode operation. They incorporate an ultra-high power 1060nm single-mode laser diode including a thermistor and a InGaAs back-facet monitor diode.

*"The introduction of our 500mW 1064 CHP Series pump laser modules is a new demonstration of our leadership in high power and high reliability GaAs laser diodes. These new modules provide more than 30% extra power compared with current offering together with a telecom-grade reliability level."* explained Yannick Bailly, Vice President of marketing and product management for 3S PHOTONICS. *"We strongly believe it represents a significant step forward for our customers involved in industrial laser markets, looking for increased output powers but also for more and more reliability. At Laser World of Photonics, we will highlight the unparalleled performance of our modules, when used as seed laser modules for pulsed fiber lasers."*

These new 1064 CHP modules have already proven their long-term reliability thru a dedicated 4000h life-test with 1,2A injection current and up to 50°C heat sink temperature. Thermal cycling, high temperature storage and mechanical integrity tests have also been successfully passed.

Key features of the products include:

- Ultra-high output power, up to 500mW operating CW at 1000mA
- Operating wavelength: from 1050 to 1070nm
- Short pulse operation of 5ns-500ns
- Low profile hermetically sealed 14-pin butterfly package
- Internal Thermo-Electric Cooler (TEC), thermistor and back-facet monitor photodiode
- Polarization maintaining single-mode fiber (PMF) pigtail
- High PER value
- With or without narrow band Fiber Bragg Grating
- MTTF exceeding 100,000 hours
- RoHS compliant



**The new 1064nm Ultra-high Power Seed Laser Modules will be displayed this week during the “LASER World of PHOTONICS” exhibition held in Munich, at 3S PHOTONICS’ booth #475.**

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

3S PHOTONICS – formerly Alcatel Optronics – is the leading world manufacturer of laser chips, optical discrete modules and components 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 five product lines:

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

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)**

#### **Agence InPRESSme**

Muriel Grimaldi / Daniela Boers

Tel. : +33.(0)1.78.94.05.75 / 71

E-mail : [mgrimaldi@inpressme.com](mailto:mgrimaldi@inpressme.com) / [dboers@inpressme.com](mailto:dboers@inpressme.com)