

Press Release

Alight names Philips U-L-M Photonics as foundry partner for volume production of its 1300nm PBG-VCSELs.

Copenhagen, March 23, 2009: Alight Technologies ApS today announced that it is working together with Philips Technologie GmbH U-L-M Photonics (Philips U-L-M Photonics) for volume manufacturing of its 1300nm PBG-VCSELs. Alight presently has a high speed 1300nm Photonic Bandgap (PBG) VCSEL under development for sampling later this year. Philips U-L-M Photonics is already a volume manufacturer of high speed multi-mode VCSELs at 850nm as well as single-mode VCSELs for non-communication applications.

Alight is initially targeting applications like 10 Gigabit Ethernet LR/LRM and up to 10 km links for 8 Gbps Fibre Channel.

“We are targeting excellent high temperature performance whilst offering lower power-consumption and module flexibility and expect that this will make our 1300nm PBG VCSEL a candidate to replace edge emitting lasers in next generation modules for datacom and telecom applications” says Dirk Jessen, CEO of Alight and adds: “We are pleased to present Philips U-L-M Photonics as our Foundry manufacturing partner and thereby we are adding proven volume manufacturing capability to our value proposition,”

Alight will present its latest results at the Optical Fiber Conference (OFC) in the San Diego Convention Center at booth # 1003 from Tuesday March 24 to Thursday March 26. Limited sampling of the 1300nm PBG-VCSEL will start in Q3, 2009.

Based on the announcement of the Foundry co-operation Alight and Philips U-L-M Photonics will co-exhibit at the OFC exhibition (Booth #1003), where Philips U-L-M Photonics also is presenting its complete program of high speed 850nm VCSELs to the data- and telecommunication community.

“Alights VCSEL technology platform in combination with the Photonic Bandgap structures will enable 1300nm VCSELs as a complementary solution to edge emitting lasers ” says Dr. Martin Grabherr General Manager of Philips U-L-M Photonics and continues “We are pleased that we are contributing to this enlargement of the VCSEL market with our proven volume manufacturing capabilities.”

Philips U-L-M Photonics has a complete offering of 850nm multimode VCSELs for the datacom market and has delivered short wavelength VCSELs for sensing applications since 2002 showing technology leadership in a number of applications. For 1300nm VCSELs, Philips U-L-M Photonics is acting as a contract manufacturer for Alight Technologies. Philips U-L-M Photonics will also participate in the reliability testing of Alight’s 1300nm PBG-VCSEL.

“We know that reliability is key to the success of 1300nm VCSELs and we have set-up a reliability testing program together with Philips U-L-M Photonics”, says Dr. Dan Birkedal, CTO of Alight and continues, “We have already demonstrated good reliability of our

2.5Gbps PBG-VCSELs due to the large oxide operation and we expect that we will maintain the good reliability also in our 10 Gbps PBG-VCSELs.”

About Alight Technologies ApS:

Alight brings long-wavelength PBG-VCSELs to the datacom, metro and access optical communication markets. By adding its Photonic Bandgap (PBG) mode control technology to the 1300nm VCSEL platform taken over from Infineon Alight is enabling high single-mode power and high-speed applications like 10 Gigabit Ethernet LR/LRM and 8 Gbps Fibre Channel.

Alight has prototyping in Copenhagen and uses Philips Technologie GmbH U-L-M Photonics for volume production.

Alights PBG technology is generic and can be applied to many wavelengths and applications. High single-mode power, narrow beam divergence and polarization stability are also attractive in sensing, printing, passive optical fiber and consumer-electronic applications. Alight pursues these opportunities outside the tele- and datacom markets through technology partnerships, co-developments and licensing relationships..

About Philips Technologie GmbH U-L-M Photonics:

Philips U-L-M Photonics is a subsidiary of Philips Technologie GmbH and operationally belongs to the product division Philips Lighting. In Ulm, Germany, Philips U-L-M Photonics operates world class manufacturing capabilities for Vertical Cavity Laser Diodes (VCSELs) that include epitaxy, processing, and testing. Among other applications, VCSEL components are supplied to consumer, sensing, and datacom applications in volume quantities. As the world’s leader in Lighting, Philips is driving the switch to energy-efficient solutions. With worldwide electrical lighting using 19 per cent of all electricity, the use of energy-efficient lighting will significantly reduce energy consumption around the world and thereby cut harmful CO2 emissions. Philips provides advanced energy-efficient solutions for all segments: road lighting, office & industrial, hospitality and home - and has been instrumental in enhancing sustainability through innovations in lighting technology. Philips is also a leader in shaping the future with exciting new lighting applications and technologies such as LED technology, which, besides energy efficiency, provides attractive benefits and endless new ‘never-before-possible’ lighting solutions. Philips Lighting employs approximately 59,000 people worldwide.

Further information:

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