128 × 2 Gb/s WDM PON System with a Single TDM Time Lens Source using an AlGaAs-On-Insulator Waveguide - DTU Orbit (11/02/2019)

We demonstrate a WDM-PON transmitter based on optical Fourier transformation of a single-source TDM-PON. Using a single AlGaAs on-insulator waveguide, 128 WDM-PON signals at 2 Gb/s are generated and transmitted over a 100-km unamplified link.

General information
State: Published
Organisations: Department of Photonics Engineering, High-Speed Optical Communication, Centre of Excellence for Silicon Photonics for Optical Communications, Nanophotonic Devices, Diode Lasers and LED Systems
Number of pages: 2
Pages: 1-2
Publication date: 2018

Host publication information
Title of host publication: Proceedings of 2018 Conference on Lasers and Electro-Optics (CLEO)
Publisher: Optical Society of America
ISBN (Print): 9781943580422
Keywords: Wavelength division multiplexing, Time division multiplexing, Optical transmitters, Optical fibers, Optical fiber dispersion, Passive optical networks
DOIs: 10.1364/CLEO_SI.2018.SM2C.3

Bibliographical note
From the session: Short Reach Communication (SM2C)
Source: FindIt
Source-ID: 2438377595
Research output: Research - peer-review Article in proceedings – Annual report year: 2018