

Creonic Introduces 25 Gbit/s LDPC IP Core Solution for ITU G.9804.2 PON Standard



Kaiserslautern, Germany, May 10, 2023 – Creonic GmbH, a leading IP core provider in the field of satellite communications, today introduced its latest LDPC forward error correction solution for passive optical networks (PON). The ITU G.9804.2 standard targets PONs with higher speeds when compared to previous generations. It specifies the common transmission convergence (ComTC) layer. With the release of these new IP cores, Creonic is providing its customers with a high-performance solution that meets the demands of modern passive optical communication systems.

The Creonic ITU-25G PON LDPC Encoder and Decoder work as part of the Forward Error Correction (FEC) in the ComTC layer, and support the default coding scheme LDPC (17280, 14592), along with the optional scheme LDPC (17152, 14592).

The IP cores achieve throughputs of 25 Gbit/s. By running two cores in parallel a speed of up to 50 Gbit/s can be achieved. AXI4-Stream interfaces for data and configuration allow for a seamless integration into the customer's design.

The LDPC decoder and encoder IP cores are available for licensing immediately, supporting ASIC and FPGA technologies such as AMD Xilinx and Intel.

[Contact us](#) for more information.

About Creonic GmbH

Creonic is an ISO 9001:2015 certified provider of ready-for-use IP cores for wired, wireless, fiber, and free-space optical communications.

All relevant digital signal processing algorithms are covered, including, but not limited to, forward error correction, modulation, equalization, and demodulation.

The company offers the richest product portfolio in this field, covering standards like 3GPP 5G, DVB-S2X, DVB-RCS2, CCSDS, and WiFi.

The products are applicable for ASIC and FPGA technologies and comply with the highest requirements with respect to quality and performance.

For more information, please visit our website at www.creonic.com.

Contact

Creonic GmbH
Bahnhofstraße 26-28
67655 Kaiserslautern
+49-631-3435-988-0
info@creonic.com

Sales & Marketing

Kevin Christoffers
Sales Manager
sales@creonic.com

Lisa Roos
Marketing & PR Manager
marketing@creonic.com