

Supported Features

- DIFI v1.1 packet parsing and encapsulation
- Multi-channel implementations for high-rate data using multiple DIFI/UDP/IP stacks (UDP/IP core available at an additional cost)
- Multi-stream implementations for low-rate data using a single DIFI/UDP/IP stack and multiple stream identifiers
- Standard AXI4 interfaces: AXI4-Stream for data interfaces and AXI4-Lite for register control

Options

The core is available in two delivery configurations:

- Encrypted: All source code is encrypted except for a reference testbench and all constraints files
- Source Code: All source code may be viewed and changed

License

• Site-wide: The core may be used on all projects within the organization

Complementary IP and HDL module offerings

- UDP/IP FPGA IP core (inquire for more details):
 - o Perform parsing and encapsulation for interfacing with an Ethernet IP core
- Timed Addition Modules (inquire for more details):
 - Many users require timed operations on their FPGAs for scheduling transmit data or timestamping receive data. These Timed Addition

Modules are available as an add-on purchase to the DIFI FPGA IP core, and they are delivered as source code with a site-wide license.

Included with Purchase

- Embedded C++ software utility for register control and Bitbake recipe to cross compile with Yocto or Petalinux
- Host C++ packet processing software for communicating with the core over a UDP/IP network
- Wireshark plugin for packet analysis over a UDP/IP network
- Reference project for one of the following platforms:
 - o Picozed 7030 FMC2 (Zyng-7000) with 1GbE
 - o ZCU102 (Ultrascale+) with 10GbE
 - ZCU111 (Ultrascale+) with 10GbE
 - o ZCU208 (Ultrascale+) with 10GbE
 - o ZCU216 (Ultrascale+) with 10GbE
 - o ZCU111 (Ultrascale+) with 100GbE

Terms & Conditions

 Geon will fix functional flaws in the core for 1 year after date of purchase at no cost. Support that is not related to a functional flaw or all support beyond 1 year after date of purchase can be provided at an hourly consulting rate.

Contact Us for a quote today!