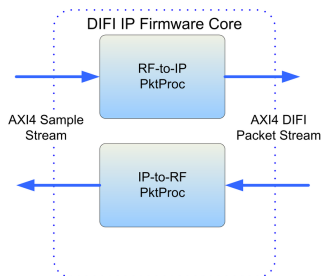


DIFI IP Firmware Core (IEEE-ISTO Std 4900-2021)

Firmware Core for DIFI Compliant Hardware

The DIFI* IP Firmware Core eases development of IEEE-ISTO Std 4900-2021 compliant hardware by providing a proven core for DIFI interfaces. Both RF-to-IP and IP-to-RF paths are included. The core is delivered as a single entity and supports a single DIFI compliant VITA*-49 (V49) stream in both the uplink and downlink directions. Multiple V49 streams are supported through multiple instantiations of the DIFI IP Core.



RF-to-IP Pkt Processor

- Encapsulates user sample data into DIFI compliant packets
- Creates Signal Data & Signal Data Context packets
- Creates Version Flow Context Packets
- Supports variable I/Q sample widths from 4 to 16 bits
- Test Packet Generation (16 bit mode)
- Packet Statistics

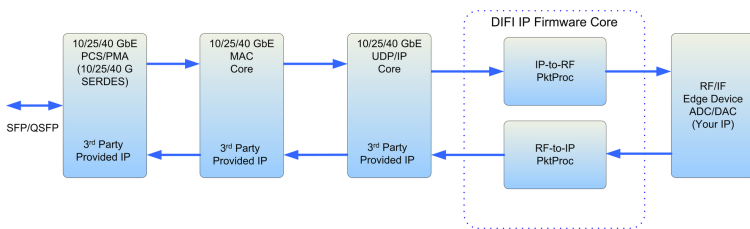
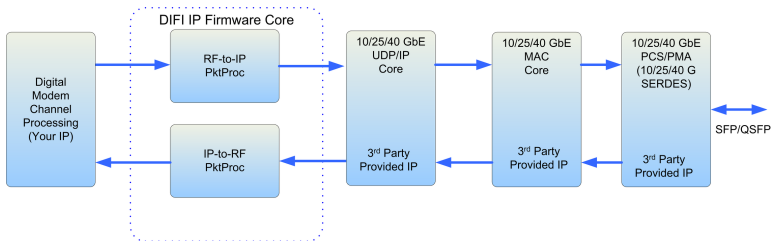
IP-to-RF Pkt Processor

- Receives and parses Signal Data & Signal Data Context packets
- De-packetizes sample data
- Receives and parses Version Flow Context packets
- Supports Variable I/Q sample widths from 4 to 16 bits
- Rejects packets not meeting the DIFI specification
- Test Packet Receiver (16 bit mode)
- Packet error detection and statistics

*DIFI: Digital IF Interoperability

*VITA: VMEbus International Trade Association

Typical Applications



For further information on our products,
 contact us at support@welkinsciences.com.