

InterPort™ LLDP software module

Kuatro Technologies InterPort Link Layer Discovery Protocol (LLDP) is a portable implementation of the IEEE 802.1AB-2009 standard which allows device and network topology discovery procedures in Carrier Ethernet Networks.

Kuatro's InterPort LLDP Software module is a platform independent solution which can be incorporated in a variety of systems including Carrier Ethernet access and aggregation products, mobile backhaul products, Ethernet and IP based 3G/4G and WiMAX base stations. The standard compliant and pre-tested InterPort Ethernet RPS software module enables networking equipment providers to rapidly and cost-effectively offer carrier-grade features on their Ethernet, broadband access and wireless product lines.

features

Kuatro's InterPort Link Layer Discovery Protocol software module implements a standards based neighbour discovery protocol that allows LAN stations to advertise the information of its local device to neighbour devices on the same physical LAN, and store and maintain the information about the network. The module also supports high-availability procedures, which allow the module to recover from a crash or switchover to a standby processing unit without disrupting the traffic.

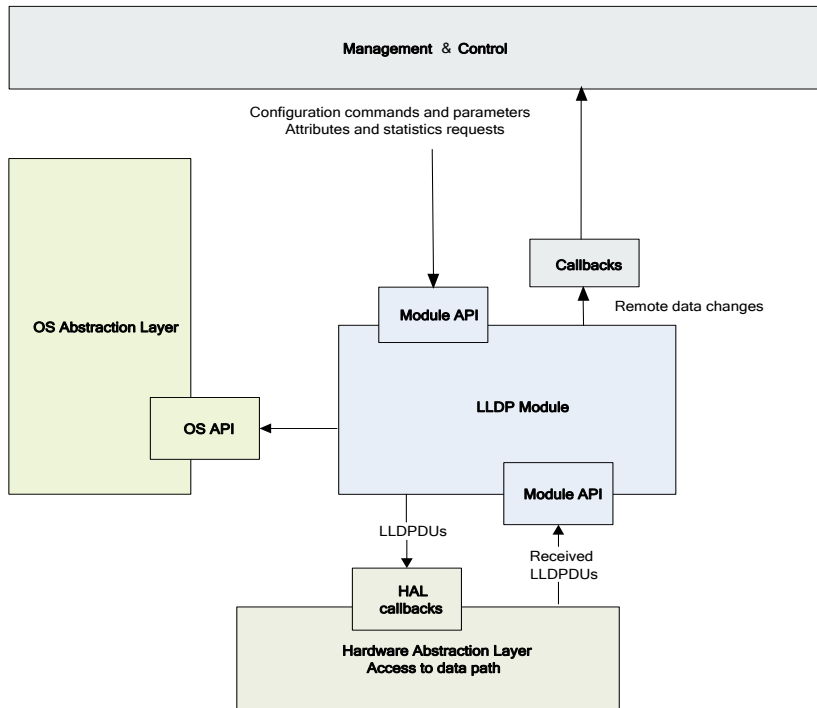
benefits

- > Up to 50% time to market reduction
- > Up to 35% savings in development costs
- > Pre-tested software modules minimize project risks
- > Integrated solution delivery by Kuatro's R&D design services
- > Portable to various OS and hardware platforms

Feature	InterPort™ LLDP Software
Support Mandatory LLDP TLVs	Yes
Support runtime registered organization specific TLVs	Yes
Support IEEE 802.3 TLV extension set	Yes
Support unidirectional mode	yes
Support bi-directional mode	Yes
Support LLDP manager functionality	Yes
Support multiple LLDP agents	Yes
SNMP MIB functionally equivalent storage and retrieval capability provided	Yes
Support dynamic notification of status changes for remote stations	Yes
Dual Stateless High Availability	Yes

architecture

InterPort Link Layer Discovery Protocol (LLDP) software module has well defined interfaces including OS abstraction APIs, Hardware Abstraction Layer (HAL) callbacks and APIs to management and control layer software. These APIs enable the portability to various platforms using different operating systems and different data plane designs whether FPGA, network processor, Ethernet silicon or virtualized platform based.



supported standards

- > Link Layer Discovery Protocol (IEEE 802.1ab-2009)
- > MAC extensions (IEEE 802.3 – 2005)
- > Two Port Mac Relay (TPMR) extensions (IEEE 802.1aj-2009)

deliverables

- > Source code in C
- > Programmer's Reference Guide
- > Porting Guide and Release Notes



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