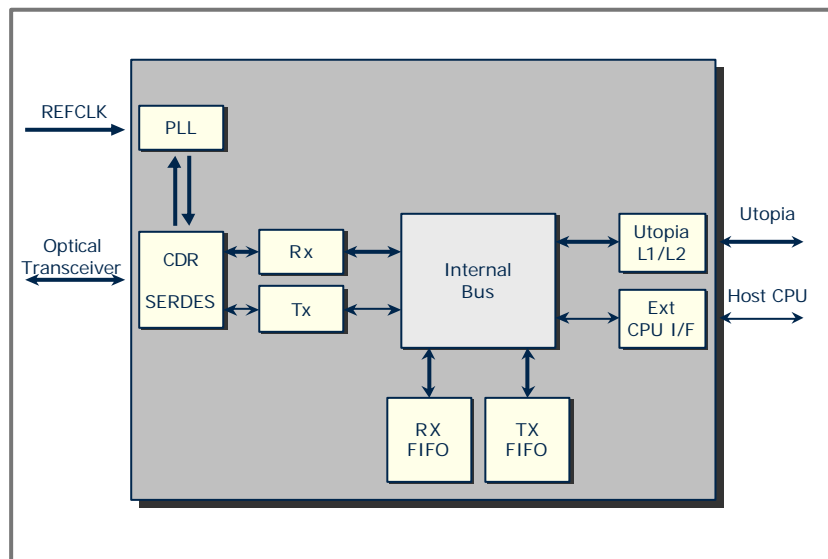


XN230 – APON ONU Media Access Controller for P2MP FTTH/B/C

Features:

- Supports the following data rates:
 - Downstream: 1244/622/155 Mbps
 - Upstream: 1244/622/155 Mbps
- Integrated CDR and SERDES supports up to 1.25 Gbps
- Enhanced 8-level QoS support for upstream traffic
- Provides enhanced integrated queue manager:
 - 16 FIFO queues with 1024 cell buffers
 - 8 Traffic Containers (T-CONTs)
 - Flexible assignment of queues for upstream, downstream or CPU
 - Flexible assignment of queue size and watermark
- Provides the following Interfaces:
 - Utopia L1/L2 multi-PHY
 - GPIO
 - External CPU
 - Optical Burst Transceiver
 - JTAG
- Provides up to 5 churn keys and 5 PON-IDs, enabling multicast traffic and logical ONUs
- Provides configurable size and content of upstream overhead bytes, of 3, 6 and 12 bytes
- Provides an APON MAC fully compliant to G.983.1 :
 - TC layer framing and de-churning
 - Scrambling according to I.432.1, I.432.2
 - Ranging process A, B
- Physical Layer OAM (PLOAM)
- Full OAM faults/alarms support
- Provides full support of G.983.4 (DBA):
 - Internal or external queue status reporting on mini-slots
 - T-CONT types 1, 2, 3, 4, 5
 - Up to 8 T-CONT queues, each mapped to a Utopia port
- Derives the clock from one of the following:
 - Recovered network clock
 - System reference clock
- Enables flexible clock generation of 0.3 kHz - 8 kHz from PLOAM SYNC bytes or system clock.
- Provides flexible downstream traffic filtering:
 - 5 VPI filters and masks
 - 8 VCI filters and masks
 - Promiscuous mode
- Dedicated connections for In-band management can be directed to external CPU.
- Full software support for most popular CPU and RTOS platforms.
- Provides full compliance to APON standards :
 - G.983.1
 - G.983.2 (OMCI)
 - G.983.4 (DBA)
 - G.983.5 (SUR)

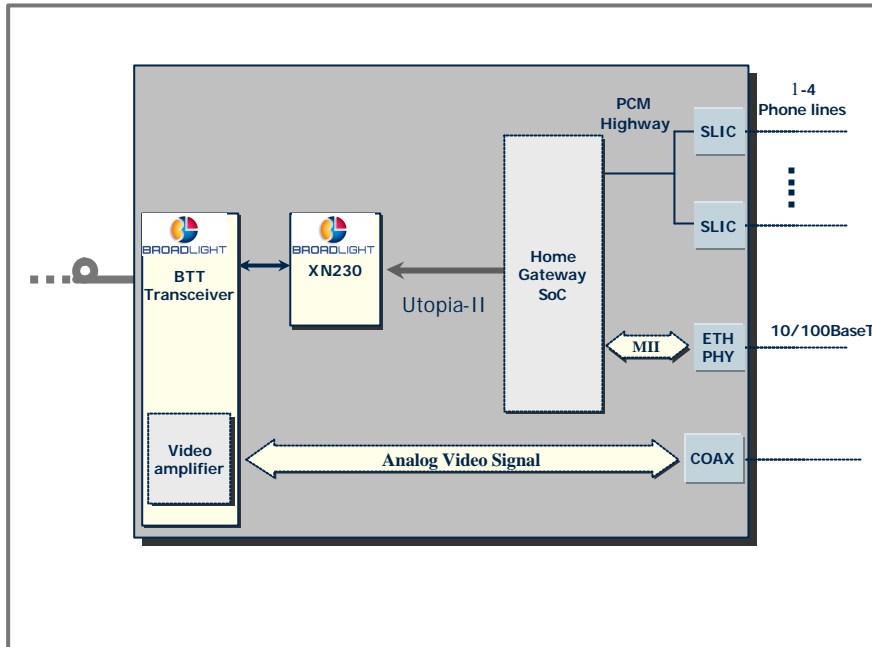


XN230 Block Diagram

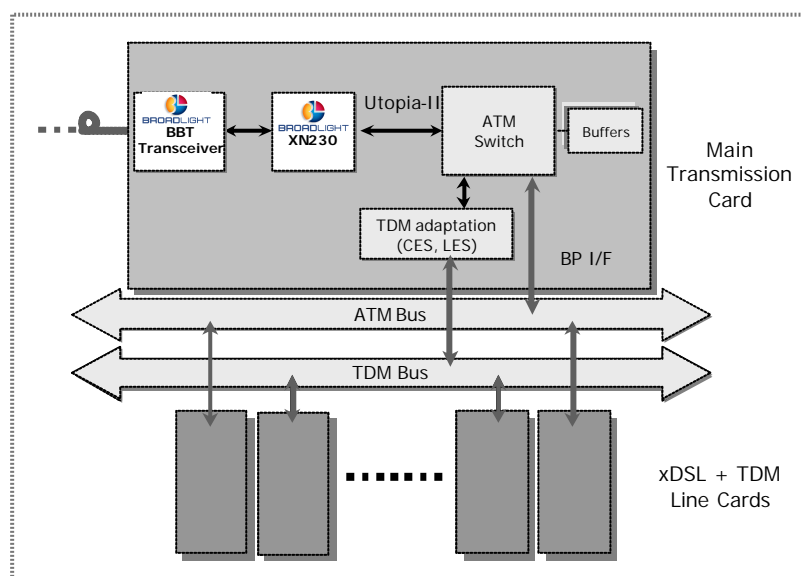
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Applications:

- FTTH Gateway (optionally with Video Overlay Channel)
- Remote DSLAM
- NG-DLC



XN230 on FTTH Home Gateway with Video Overlay Channel



XN230 on a Multi-Service Platform

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