Watch out!

Fiber-to-the-Distribution-Point (FTTdp)

Live Demo!
1st Commercially available FTTdp solution!

250 Mbps Bandwidth

Fully Reverse Powered!

Co-developed with Aethra® Telecommunications!
What is Fiber-to-the-Distribution-Point?

- **Fiber rollout** has been slow until now because of the problems related to FTTH and FTTB.

- FTTH often can’t be used in existing buildings:
  - Construction works have high costs and uncertain lead times.

**BUT**

- FTTB is not a Plug and Play solution for carriers:
  - They have to deal with electric utilities in each one of the buildings.

Lantiq and Aethra® Telecommunications

FTTdp SOLVES THESE ISSUES!

Please contact Lantiq for further details!
What is Fiber-to-the-Distribution-Point?

- Fiber-to-the-Distribution-Point is hybrid FTTB: fiber arrives up to the basement of the building and VDSL2 is used over the vertical copper cabling.

- Hybrid Nework Terminations are single-user reverse-powered modules:
  - Power comes from the user’s home through the same copper cabling used for VDSL2 (Aethra® Telecommunications patent pending technology)

  AND

- VDSL2 over this short distance is superfast:
  - Up to 250Mbps aggregated datarates

Please contact Lantiq for further details!
FTTdp Access Network Solution

Major Success Factors of FTTdp
“Carrier friendly” fiber rollout
Superfast triple play services
Available today!

Please contact Lantiq for further details!
Fiber-to-the-Distribution Point
Architecture with Lantiq Chipsets

**FTTdp Highlights**
250Mbps aggregated bandwidth
Fully reverse powered!
Ultra low power FTTdp Node (<10W)
Ready for Mass Deployment!

Co-developed with Aethra® Telecommunications

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Vinax V3 - Lantiq VDSL2 CO Chipset

Doubling Linecard Density
- Smallest Package Size in the Industry
- High Density Linecard up to 72 channels
- Single Chipset supporting 17MHz and 30MHz

Lowest Power Consumption
- Industry-leading power consumption of 0.9W per port
- Surpassing Code of Conduct (CoC) requirements
- Supporting low power class H line driver

Best-in-Class Feature Set
- On-chip integration of MELT controller for remote line testing
- Bonding up to 500Mbps/500Mbps downstream/upstream performance
- “Full System Vectoring”-ready

Please contact Lantiq for further details!
FALC™ ON - Lantiq’s FTTx GPON SoC Family

**Significant power savings**
- Integrated power management unit
- Direct control of the laser supply and Avalanche Photo Diode (APD) bias current and voltage
- Lowest power consumption far below the CoC requirements

**Improved optical network robustness**
- On-chip, automatic calibration and compensation of optical components leading to long term stability and improved Network robustness (e.g. Laser aging effects can be compensated)

**Significant cost savings**
- Direct interface to low cost GPON BiDi-OSA/BOSA
- Integrated Burst-Mode Laser Driver and Limiting Amplifier
- Up to 40% savings by using a BOSA instead of the optical Module
- Integrated Energy Efficient (EEE) Gigabit Ethernet Phys and Voice Codecs

The *world’s first* GPON System on Chip with integrated optical control circuitry

Please contact Lantiq for further details!
Aethra® Telecommunications HGV1+ Access System

- Aethra® Telecommunications HGV1/HGV1+ Access System
  - Fiber-to-the-Distribution-Point without/with the need of POTS signal regeneration
    - Aethra® Telecommunications HNT1/HNT1+
      - Hybrid GPON-VDSL2 network termination, without/with POTS regeneration
    - Aethra® Telecommunications RPF1/RPF1+
      - Hybrid GPON-VDSL2 network termination, without/with POTS regeneration

More info on Aethra® Telecommunications Fiber-to-the-Distribution-Point

Please contact Lantiq for further details!