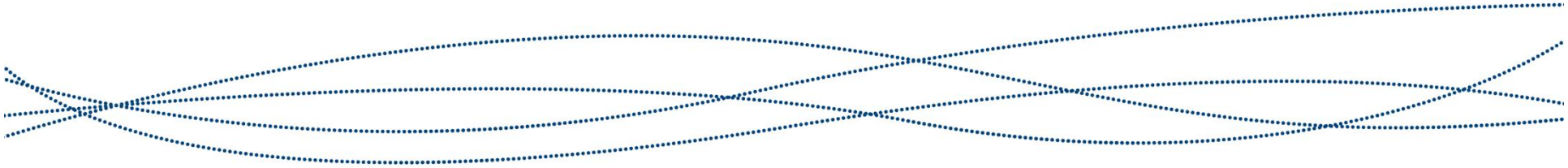


Watch out !

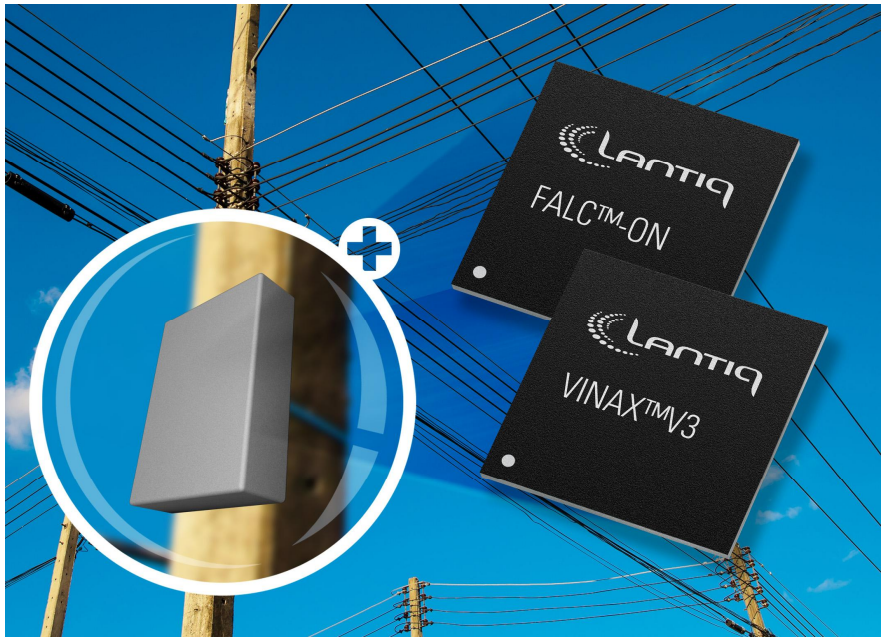
Fiber-to-the-Distribution-Point (FTTdp)

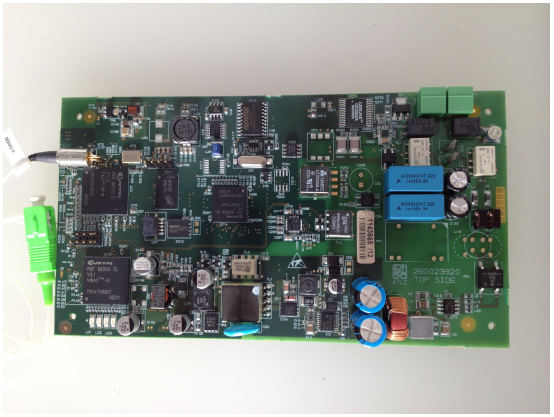
Live Demo !

1st Commercially available FTTdp solution!

250 Mbps
Bandwidth

Fully Reverse Powered !





Co-developed with
Aethra® Telecommunications !

Please contact Lantiq for further details!

What is Fiber-to-the-Distribution-Point?

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

- **FTTH often <u>can't</u> be used in existing buildings:**
  - Construction works have high costs and uncertain lead times

  <u>BUT</u>

- **FTTB <u>is not</u> 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 throught 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

GUARANTEED LEAD TIMES

COST EFFECTIVE FIBER ROLLOUT

VDSL2 SUBSCRIBERS EASY UPSELLING

Please contact Lantiq for further details!

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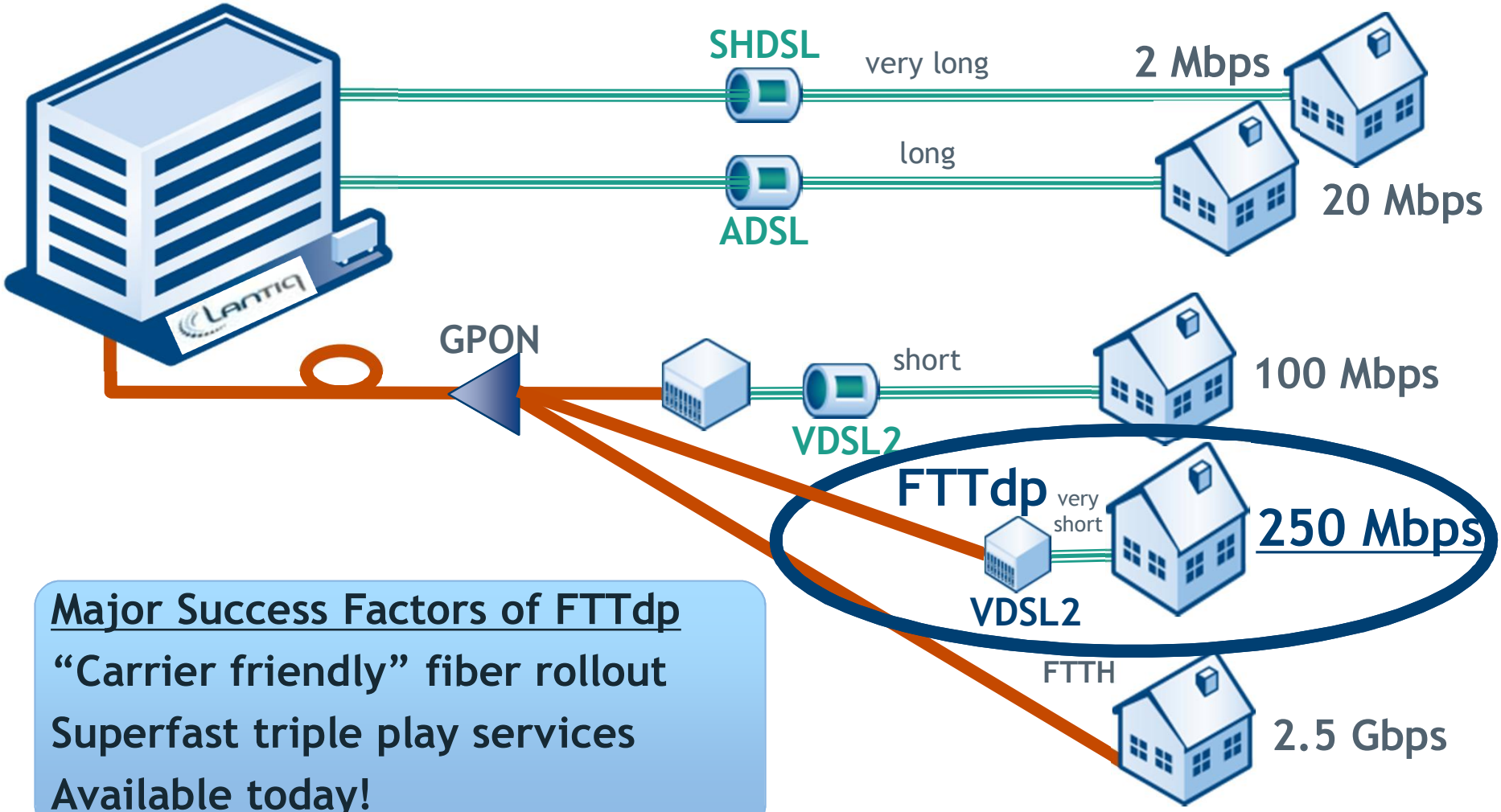
FTTdp Access Network Solution



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

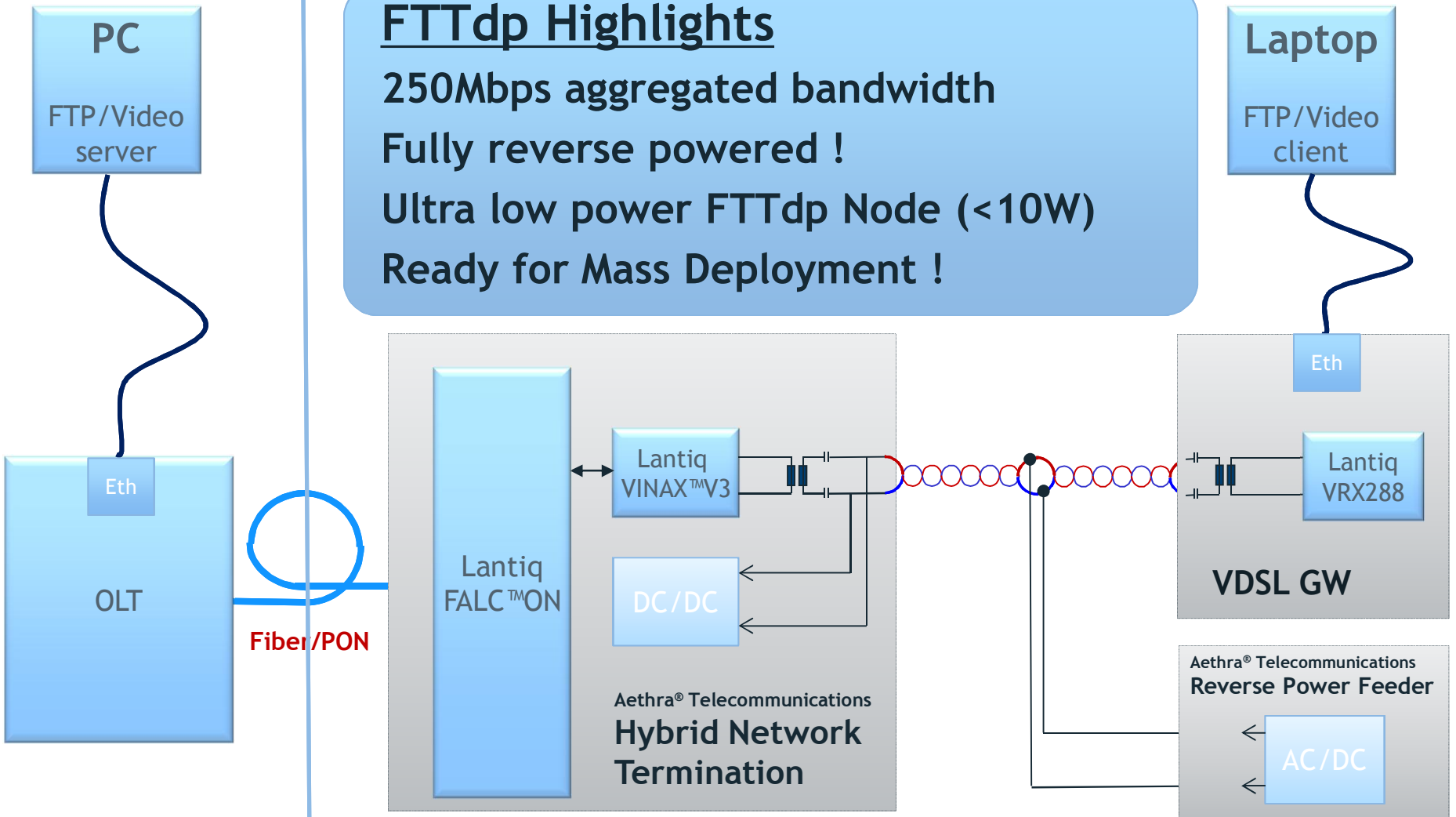
FTTdp Highlights

250Mbps aggregated bandwidth

Fully reverse powered !

Ultra low power FTTdp Node (<10W)

Ready for Mass Deployment !



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Vinax V3 – Lantiq VDSL2 CO Chipset

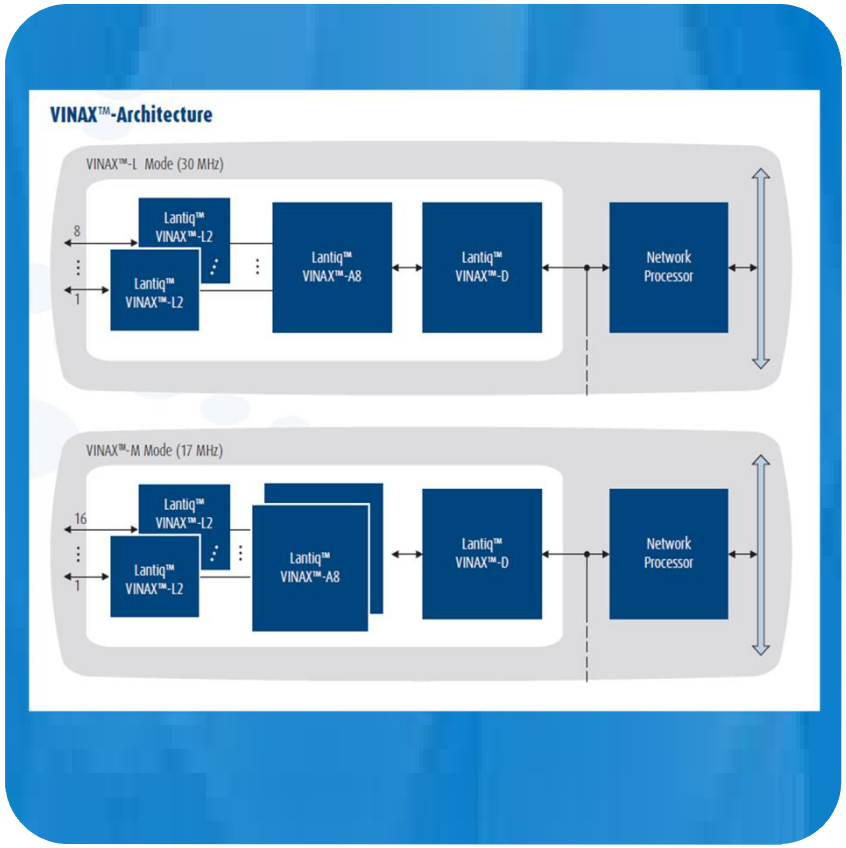
VDSL2

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

ENERGY STAR

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



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LANTIQ

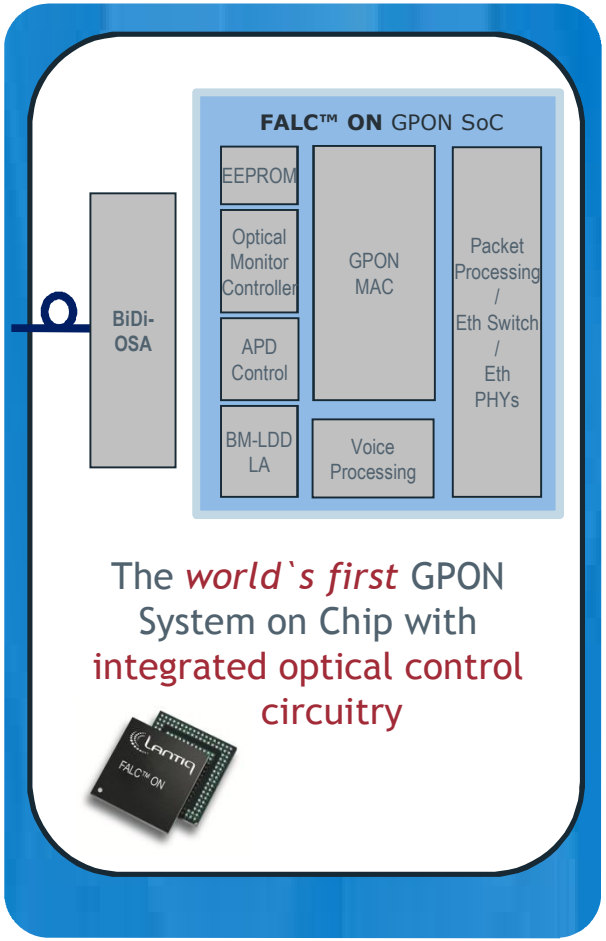
FALC™ ON - Lantiq's FTTx GPON SoC Family

GPON

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



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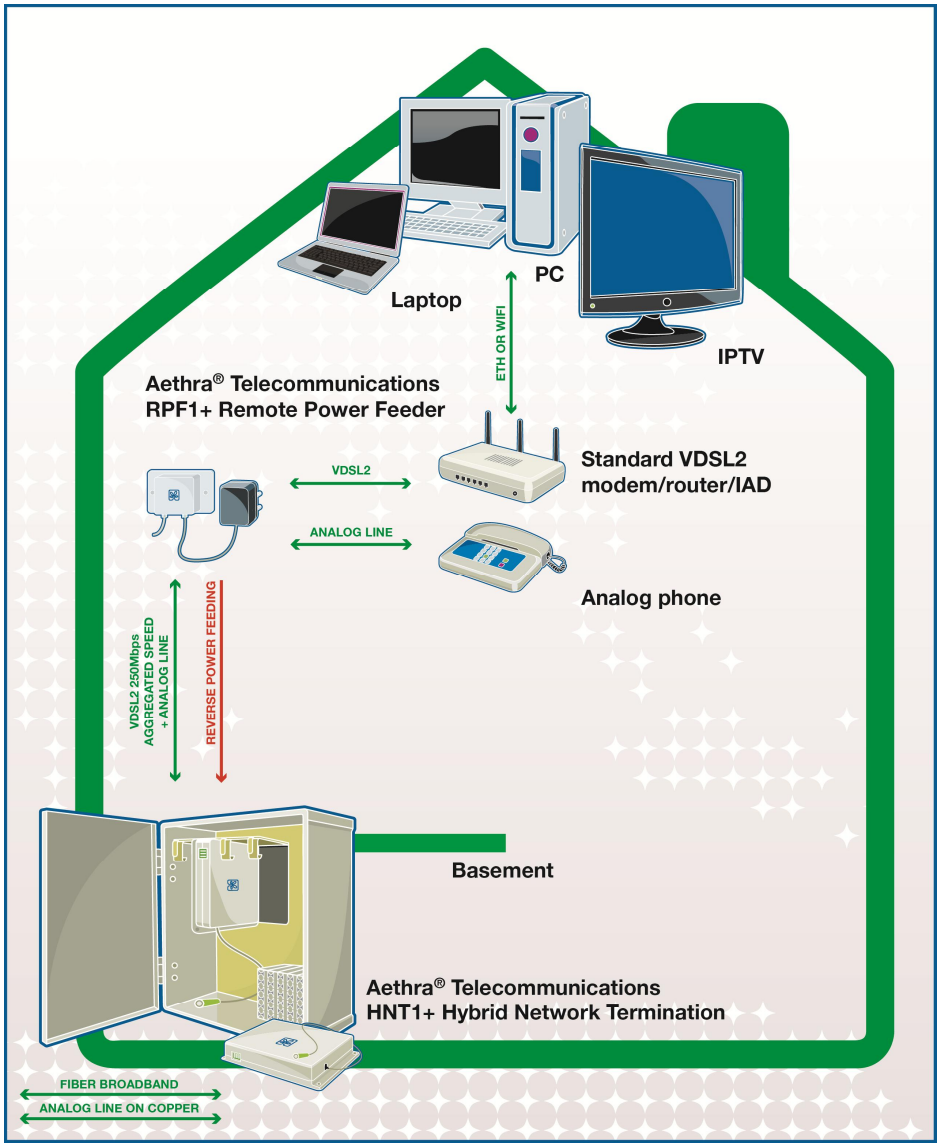
Aethra® Telecommunications HGV1+ Access System

- **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



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LANTIQ
Connecting the Dots