Product Brief
EVB2301-BL/Eth

VDSL2

The last mile broadband solution

General Features

Transmission modes

VDSL2 profiles	8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a
Data rate	Up to 100 Mbps upstream / 100 Mbps downstream
Band-plans	Conforms to NA, EUR & Swedish band-plans
Annex	A/B/C
Parameter configurability	997.1 Compliant

Advanced Features from ITU

OLR	Supports bit swapping, SRA and dynamic interleaver depth (D) change
US0	Supported
PBO	Both UPBO and DPBO supported

Unique Features

QoS	Flexible packet sorting based on EtherType, VLAN ID or VLAN priority (supports QinQ).
Legacy compatibility	Compatible with POTS and ISDN

Interfaces

RJ-11	RJ-11 VDSL2 connector
RJ-45	RJ-45 Ethernet connector

VDSL2 Ethernet dongle

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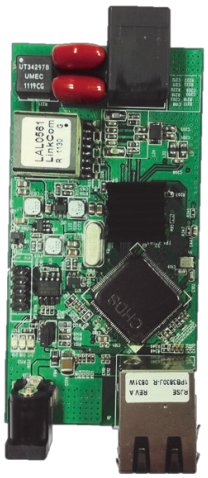

Applications

- VDSL2 dongle
- VDSL2 bridge
- Low cost VDSL2 upgrade for current ADSL gateway with WAN port

This is a reference design for a high performance and low cost Ethernet connected VDSL2 bridge based on the MT2301 DMT chip.

This is a perfect solution for fast VDSL2 deployment and our area efficient design enables attractive casing possibilities. This extremely cost efficient design is a smart choice for operators and service providers looking for a low CAPEX VDSL2 migration path.

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Simplicity with Ethernet RJ-45

This design provides VDSL2 connectivity through Ethernet RJ-45 connection, which is by far the most popular and commonly deployed network connection interface. This enables products based on this design to easily address any connectivity requirements and issues with current installations, which in turn will both simplify and lower the CAPEX of a VDSL2 migration.

Fully standard-compliance ensures guaranteed interoperability

The MT2301 DMT and 3301 AFE fully comply with the ITU-T standards for VDSL2. In addition to compliance, Metanoia has devoted considerable efforts and resources to ensure complete interoperability with other chip vendors to provide a reliable and seamless VDSL2 experience.

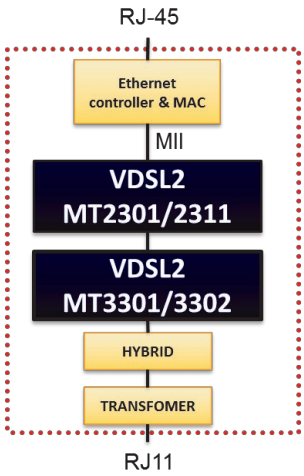
Cost-efficiency enables smooth VDSL2 migration

This extremely cost-efficient design enables a low CAPEX solution for a seamless migration to VDSL2. This can enable a path for operators to upgrade the internet service of existing customers at a very minimal cost.

Small size enables user friendly casing

The small physical form factor of this design enables a customer friendly and attractive casing.

Block diagram for Ethernet VDSL2 :



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