

State-of-the-art SHDSL.bis connectivity

SHDSL allows symmetrical data rates in both the up and downstream directions up to 5696 kbps in one single copper pair and to 20 Mbps when bundling 4 pairs.

Aethra[®] Telecommunications AS Series include SHDSL.bis modems and routers, with extensive IP routing, advanced QoS mechanisms, firewall and VPN with IPSEC encryption.

Fiber-like broadband access and services

Aethra[®] Telecommunications AS Series modems and routers help carriers to bring ultra fast symmetrical connectivity and triple play services still using the standard copper cabling.



SOLUTIONS BRIEF

Aethra[®] Telecommunications SHDSL enterprise solutions

Overview

SHDSL is the acronym for Single-Pair High-Speed Digital Subscriber Line, a technology which allows symmetrical data rates in both the upstream and downstream directions up to 2312 kbps (for standard SHDSL) and 5696 kbps (for the new SHDSL.bis) in one single copper pair.

With the possibility offered to bundle up to 4 copper pairs, SHDSL.bis gives the opportunity to reach up to 20 Mbps symmetrical data rates, which means having ultra fast, fiber-like broadband access while still using the standard copper cabling.

Aethra[®] Telecommunications AS Series modems and routers are designed to provide state-of-the-art SHDSL.bis ATM / EMF connectivity with full, hardware implemented EFM functionalities like 64/65B encapsulation and PAF for aggregation.
Aethra[®] Telecommunications AS

Series include "network termination" modems and complete broadband routers, with extensive IP routing, advanced QoS mechanisms, firewall and VPN with IPSEC encryption.

Application Scenarios

Aethra[®] Telecommunications AS Series modems and routers are Cloud Access Devices, especially designed to offer high speed, symmetrical broadband access for home and business use.

Carriers and service providers can expand the range of solutions offered to their customers "closing the gap" between xDSL and fiber.

SHDSL technology and Aethra[®] Telecommunications AS Series modems and routers are the ideal solutions for carriers who want to deploy ultra fast connectivity and IP services even where it is impossible



or not cost effective to reach homes and offices with fiber.

Businesses can take advantage of fast broadband access and a full set of high end routing and traffic shaping features, tailored to meet the need to access the most demanding IP applications like telephony, Internet, IPTV and data in a cloud computing oriented world.

Products

Aethra® Telecommunications AS2221 modem

SHDSL.bis EFM 4-wire Modem, 1+1x10/100bT Eth.

Aethra® Telecommunications AS2421 modem

SHDSL.bis EFM 8-wire Modem, 1+1x10/100bT Eth.

Aethra® Telecommunications AS2251 router

SHDSL.bis EFM 4-wire Router, 1+4x10/100bT Eth.

Aethra® Telecommunications AS2451 router

SHDSL.bis EFM 8-wire Router, 1+4x10/100bT Eth.

Aethra® Telecommunications AS2451AE router

SHDSL.bis ATM / EFM 8-wire Router, 1+4x10/100bT Eth.

For more info

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AS Series	USE	WAN	LAN	IPv6 ³	L2 MODE	L3 MODE
AS2221	modem	SHDSL.bis ¹ (2 pairs, EFM only) FE ²	1 x FE	✓	✓	-
AS2421	modem	SHDSL.bis ¹ (4 pairs, EFM only) FE ²	1 x FE	✓	✓	-
AS2251	router	SHDSL.bis ¹ (2 pairs, EFM only) FE ²	4 x FE	✓	✓	✓
AS2451	router	SHDSL.bis ¹ (4 pairs, EFM only) FE ²	4 x FE	✓	✓	✓
AS2451AE	router	SHDSL.bis ¹ (4 pairs, ATM and EFM) FE ²	4 x FE	✓	✓	✓

NOTES

- ¹EFM support only
- ²ETH can be used also for management use
- ³ATOS release 6, available 2014
- ⁴ATM and EFM support

Figure 1: Aethra® Telecommunications AS Series comparison chart.

Aethra® Telecommunications AS Series modems and routers are especially designed to bring fiber-like broadband access where it's impossible to have fiber.

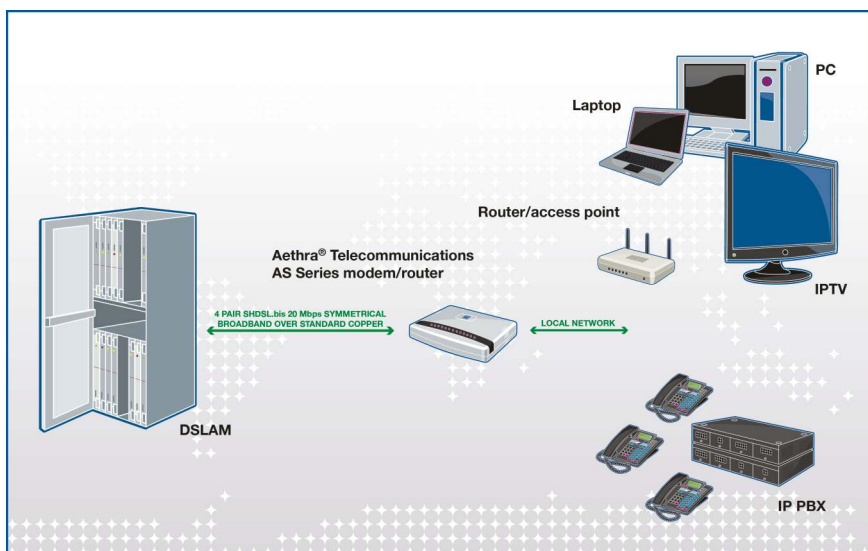


Figure 2: Sample application scenario.

A full set of high end routing and traffic shaping features ideal for IP applications like telephony, IPTV and cloud services.