

## 600Mbps with VDSL2 profile 35b Bonding for Business Users

The new VDSL2 35b technology enables the fastest bandwidth available for a business solution in FTTC architectures.

Thanks to the Aethra Telecommunications VDSL2 35b bonding technology, customers can benefit of up to 600Mbps downstream speed.

## Hybrid Access and Service Continuity

Business service is guaranteed via connectivity backup using LTE (internal module or USB dongle) together with VDSL2.

Mobile connectivity can also be used to increase speed thanks to the embedded IP Multipath balancer feature.



### SOLUTION BRIEF

# Aethra Telecommunications® Vplus Routers and IADs.

## 600Mbps in VDSL2 FTTC Scenarios for Business Users

VDSL2 Profile 35b (commercially also known as Vplus or Super-Vectoring or EVDSL) is giving the service providers the perfect weapon to offer to their customers ultra broadband while leveraging their current Fiber-to-the-Cabinet infrastructure.

VDSL2 profile 35b is already in the field, guaranteeing to the end user the holy grail of ultra broadband: services reaching up to 300Mbps.

Now, thanks to VDSL2 35b bonding, downstream speeds can reach up to 600Mbps.

Benefits of the technology include:

- higher node density and higher speeds on longer loops than G.Fast
- larger vectoring groups
- seamless upgrade path and full

backwards vectoring compatibility with VDSL2 profile 17a.

## Business Routers and IADs with VDSL2 profile 35b Support

Aethra Telecommunications offers a full line-up of Access Devices supporting the new standard:

- SV6000M Series factory modular platform supports VDSL2 35b 2-pair bonding in versions with one and two ISDN PRI voice interfaces.
- Dedicated to Small-Medium Enterprises and Branch offices needing an All-in-One device with embedded analog and ISDN BRI voice ports, SV6044E Series IADs support VDSL2 35b 2-pair bonding using the modular WAN option.
- BG85xxE Series include data-only routers and integrated access devices with a single line VDSL2 35b capable interface.



## Fixed and Mobile Ultra-Broadband Connectivity

BG Series, SV6044E and SV6000M access devices all include a gigabit combo (SFP / electrical) WAN port so that the same router / IAD can be used for both FTTC and FTTH customers.

Together with the fixed WAN interfaces, 4G / LTE options on SV6000M and SV6044E (embedded on selected BG Series) provide mobile connectivity that can be used as backup and/or a second active WAN in hybrid access scenarios.

## Analog, ISDN BRI and PRI Voice Interfaces

Aethra Telecommunications Integrated Access Devices offer a full range of options for what concerns the embedded voice gateway:

- BG Series include analog FXS only and mixed analog FXS / ISDN BRI options.

- SV6044E Series provide 4 analog FXS ports and 4 ISDN BRI ports; an extra FXO port is present to help during number portability procedures and to provide PSTN backup and fallback.

- SV6000M Series configurations enabled with a VDSL2 profile 35b interface are offered with single or double PRI ports.

Table 1, 2 and 3 detail the various options and configurations available.

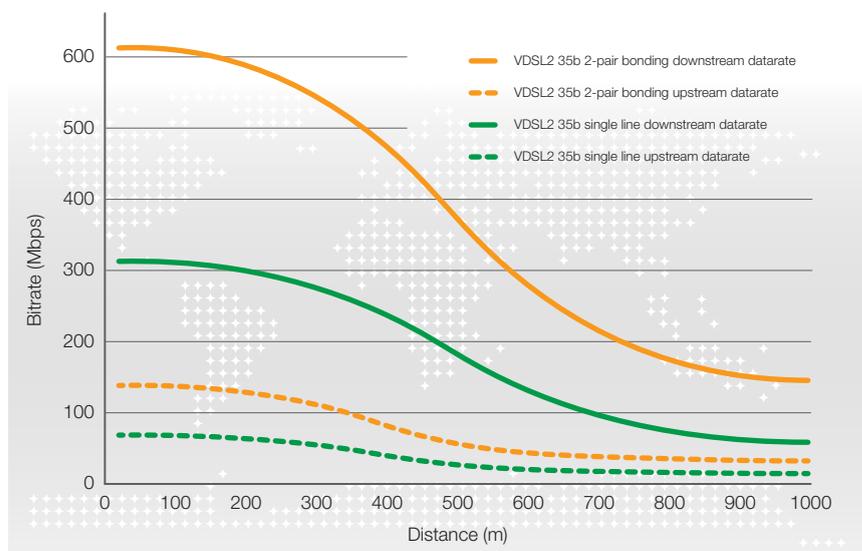


Figure 1: VDSL2 profile 35b single line and bonding performances.

SV6000M	WAN	VDSL2 35b BONDING	LAN	WiFi b/g/n	WiFi ac	FXS/FXO	BRI	PRI	VOICE CHANNELS	LTE	USB
SV6000MVE2P1W	VDSL2 35b A / VDSL2 GbE / SFP	✓	4 x GbE	✓	-	-	-	1	30	FACTORY OPTION	1
SV6000MVE2P2W	VDSL2 35b A / VDSL2 GbE / SFP	✓	4 x GbE	✓	-	-	-	2	60	FACTORY OPTION	1

Table 1: VDSL2 35b enabled SV6000M Integrated Access Devices.

SV6044E	WAN	VDSL2 35b BONDING	LAN	WiFi b/g/n	WiFi ac	FXS/FXO	BRI	PRI	VOICE CHANNELS	LTE	USB
SV6044EMVE2W	VDSL2 35b A / VDSL2 GbE / SFP	✓	4 x GbE	✓	-	4 / 1	4	-	8	FACTORY OPTION	2

Table 2: VDSL2 35b enabled SV6044E Integrated Access Devices.

BG Series	WAN	VDSL2 35b BONDING	LAN	WiFi b/g/n	WiFi ac	FXS	BRI	VOICE CHANNELS	LTE	USB
BG8500EW	VDSL2 35b A / VDSL2 GbE / SFP	-	4 x GbE	✓	-	-	-	-	-	1
BG8500ELW	VDSL2 35b A / VDSL2 GbE / SFP	-	4 x GbE	✓	-	-	-	-	✓	1
BG8500E2W	VDSL2 35b A / VDSL2 GbE / SFP	✓	4 x GbE	✓	-	-	-	-	-	1
BG8520EW	VDSL2 35b A / VDSL2 GbE / SFP	-	4 x GbE	✓	-	2	0	4	-	1
BG8520EWAC	VDSL2 35b A / VDSL2 GbE / SFP	-	4 x GbE	✓	✓	2	0	4	-	1
BG8542EW	VDSL2 35b A / VDSL2 GbE / SFP	-	4 x GbE	✓	-	4	2	8	-	1
BG8542EWAC	VDSL2 35b A / VDSL2 GbE / SFP	-	4 x GbE	✓	✓	4	2	8	-	1
BG8544EW	VDSL2 35b A / VDSL2 GbE / SFP	-	4 x GbE	✓	-	4	4	8	-	1
BG8544EWAC	VDSL2 35b A / VDSL2 GbE / SFP	-	4 x GbE	✓	✓	4	4	8	-	1
BG8544ELW	VDSL2 35b A / VDSL2 GbE / SFP	-	4 x GbE	✓	-	4	4	8	✓	1

Table 3: VDSL2 35b enabled BG Series Routers and Integrated Access Devices.