

Integrated Access Devices

Advanced voice and data services for Small and Medium Enterprises.

IPv6 routing, bridging, firewall and QoS features, A/VDSL and SHDSL support on both ATM and EFM make Aethra[®] Telecommunications IADs the perfect choice for cloud computing needs.

Full range of interfaces and compatibility

Analog and ISDN BRI ports, with the highest degree of compatibility with every type and brand of legacy telephony devices (PBXs, faxes, phone sets, answering machines, modems).

Business services and advanced features

Printer and storage server on USB, Captive Portal for the creation of WiFi hotspots and IP PBX features.



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SOLUTIONS BRIEF

Aethra[®] Telecommunications Integrated Access Devices

Overview

Aethra[®] Telecommunications BG and SV series Integrated Access Devices (IADs) provide advanced voice and data services for Small and Medium Enterprises.

Four to thirty concurrent high quality voice calls, Gb Ethernet ports and switch, Fax/Modem support and secure WiFi make Aethra[®] Telecommunications IADs the perfect choice for carriers and system integrators who want to offer fully featured voice and broadband connectivity.

BG and SV series IADs support ADSL2/2+, VDSL2 (with full end to end vectoring support) and SHDSL on both ATM and EFM. Voice interfaces range from analog to ISDN BRI ports, helping carriers to deploy a smooth and seamless transition to IP telephony for their customers, who will be able to continue to use their PBXs, phones and faxes.

Aethra[®] Telecommunications IADs are ready for Next Generation Networks with IPv6 support, advanced routing, bridging, firewall and VPN capabilities; a fully fledged QoS engine allows traffic classification/prioritisation for cloud computing needs.

Business continuity is assured thanks to connectivity backup using 3G (internal module or USB dongle), ETH, FXO and ISDN ports.

Aethra[®] Telecommunications BG and SV series Integrated Access Devices can be configured and managed locally and remotely, giving ITs, network administrators and service providers a fast and cost-effective way to deploy network services to branch offices and tele-workers.

Application Scenarios

Aethra[®] Telecommunications
Integrated Access Devices

provide SoHo/SMB secure and fully featured broadband access and VoIP services.

Carriers who need to supply voice and data access to their customers can rely on a complete and cost effective range of devices, with analog and ISDN BRI ports, with the highest degree of compatibility with every type and brand of legacy telephony devices (PBX, faxes...).

Entirely based on SIP, Aethra® Telecommunications BG and SV also offer a full set of PBX telephony services with voice mail, fax to mail, centralized phone book and conferencing bridge inside the IAD. Analog extensions, DECT phones and standard SIP phones and clients are fully supported.

BG and SV series include Captive Portal functionalities to allow enterprises to easily offer Internet access and connectivity creating Wi-Fi Hot Spots.

Printer and storage server capabilities are also offered using USB 2.0 ports.

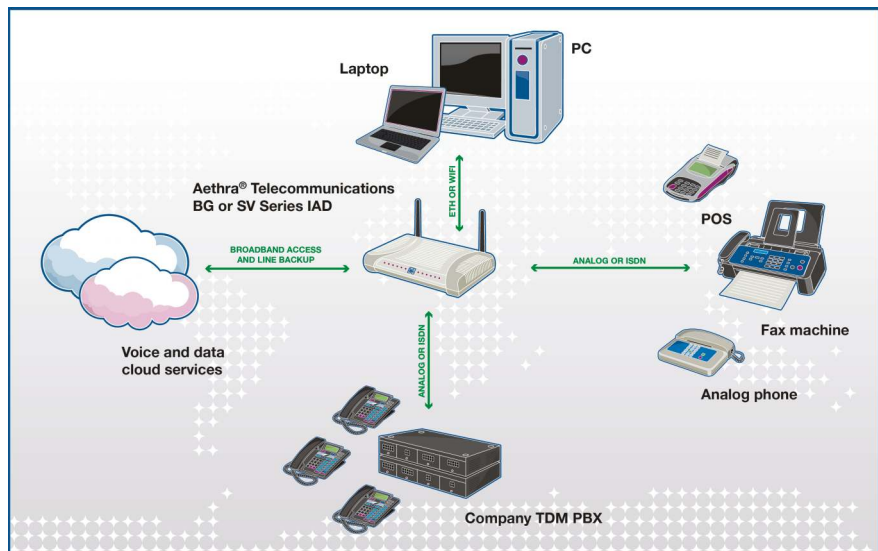


Figure 1: Sample application scenario.

BG Series	WAN	LAN	IPv6	WiFi ²	FXS/BRI	FXO ²	DECT CATiq ²	G.729 ch.	3G/4G	USB
BG1220	ADSL	4 x FE	✓	802.11b/g/n, 2.4 GHz, WEP WPA1/2, WPS	2 / 0	0	dongle	4	dongle	1
BG1221R	ADSL FE	4 x FE	✓	802.11b/g/n, 2.4 GHz, WEP WPA1/2, WPS	2 / 1	0	dongle	4	dongle	1
BG1242	ADSL FE	4 x FE	✓	802.11b/g/n, 2.4 GHz, WEP WPA1/2, WPS	4 / 2	1	dongle	4	dongle	2
BG7420	A/VDSL ¹ GbE	4 x GbE	✓	802.11b/g/n, 3x3, 2.4 GHz, WEP WPA1/2, WPS	2 / 0	1	✓	4	✓	2
BG8542	A/VDSL ¹ GbE SFP	4 x GbE	✓	802.11b/g/n, 2x2, 2.4 GHz, WEP WPA1/2, WPS	4 / 2	1	✓	8	✓	2

NOTES
¹VDSL2 full vectoring support
²optional

Products

Aethra® Telecommunications BG Series

Based on next generation single-chip solution, BG series provide best-in-class quality voice and high routing performances. With four to eight concurrent calls, analog and ISDN BRI ports, BG IADs offer ADSL2/2+ and VDSL2 (with full end to end Vectoring support) broadband access.

Aethra® Telecommunications SV Series

SV IADs are the high level solutions, with up to eight concurrent voice channels on analog and ISDN BRI ports. SV IADs are based on single or dual core architecture and support ADSL2/2+, VDSL2 and SHDSL.bis connectivity on copper, fiber and V/X interfaces.

Figure 2: Aethra® Telecommunications BG Series comparison chart.

SV Series	WAN	LAN	IPv6	WiFi ²	FXS/BRI	FXO ²	DECT CATiq ²	G.729 ch.	3G/4G	USB
SV1242E	ADSL VX FE	4 x FE	✓	802.11b/g, 2.4 GHz, WEP WPA1/2, WPS	4 / 2 (NT+NT/TE)	1	dongle	8	dongle	1
SV2242E	SHDSL.bis ¹ (2 pairs) FE	4 x FE	✓	802.11b/g, 2.4 GHz, WEP WPA1/2, WPS	4 / 2 (NT+NT/TE)	-	-	8	-	-
SV6044	FE	4 x FE	✓	802.11b/g, 2.4 GHz, WEP WPA1/2, WPS	4 / 4	-	-	8	-	-
SV6044V2	A/VDSL ³ FE	4 x FE	✓	802.11b/g, 2.4 GHz, WEP WPA1/2, WPS	4 / 4	-	-	8	-	-
SV6044S	SHDSL.bis ¹ (4 pairs) FE	4 x FE	✓	802.11b/g, 2.4 GHz, WEP WPA1/2, WPS	4 / 4	-	-	8	-	-
SV6044-VX	VX FE	4 x FE	✓	802.11b/g, 2.4 GHz, WEP WPA1/2, WPS	4 / 4	-	-	8	-	-

NOTES
¹ATM and EFM support
²optional
³VDSL2 full vectoring support

Figure 3: Aethra® Telecommunications SV Series comparison chart.