

Aethra Telecommunications BG8500H Series

Device Overview

Aethra Telecommunications BG8500H Series routers and integrated access devices, support the new VDSL2 35b profile, granting ultra-broadband speeds up to 300Mbps. All the configurations include also a combo GE / SFP WAN interface for FTTH connectivity and, on selected models, mobile WAN with 3G / LTE for hybrid access.

Packaging Content

The box includes:

- 1 x BG8500H Series Business Router
- 2 x Quick Installation Guides and Safety Notices
- 1 x AC/DC switching power supply
- 1 x RS232-RJ45 Console cable
- 1 x Wall Mounting Kit
- (Optional depending on model) 1 x cable RJ11-RJ11 2m
- (Optional depending on model) 2 x LTE antennas

Connectors, Interfaces and LEDs

The images below show the front and back panel configurations of the BG8500H Series routers and Universal CPEs.

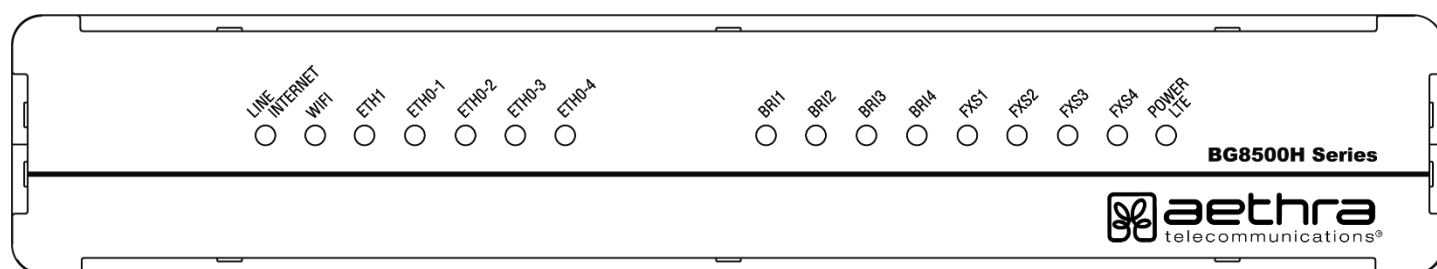


Figure 1: Aethra Telecommunications BG8500H Front Panel.

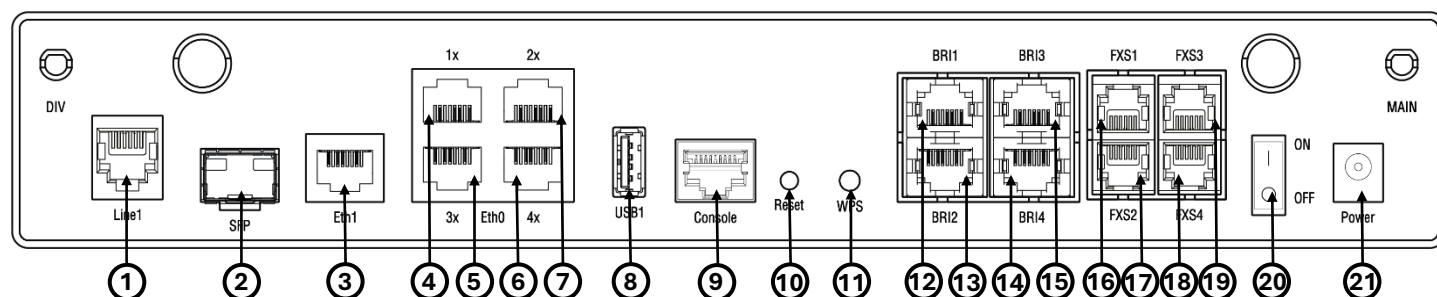


Figure 2: Aethra Telecommunications BG8500H Back Panel.

FRONT PANEL INTERFACES AND CONNECTORS

1	A/VDSL	10	Reset Button
2	SFP Port	11	WPS Button
3	RJ-45 Wan Port	12	ISDN BRI Port
4	RJ-45 Lan GE Port	13	ISDN BRI Port
5	RJ-45 Lan GE Port	14	ISDN BRI Port
6	RJ-45 Lan GE Port	15	ISDN BRI Port
7	RJ-45 Lan GE Port	16	FXS Port
8	USB 2.0 Port	17	FXS Port
9	Console Port	18	FXS Port
19	FXS Port	21	18V Input Power
20	On / Off Button		

FRONT PANEL LED INDICATORS

LINE INTERNET	OFF: No xDSL connection Green fixed: VDSL2 or ADSL line connected to the CO Red fixed: Connected line. Waiting for receiving the gateway address from IPCP or DHCP server on the WAN Green blink: Connected line and In/Out IP traffic over the WAN Red blink: VDSL2 / ADSL physical layer set up or failed connection (no line).
WiFi	OFF: Wireless interface is disabled Green fixed: Wi-Fi Interface is UP Green blink: data access/activity
ETH1	OFF: No device connected Green fixed: Mobile Interface is UP Green blink: data access/activity
ETH0-1,2,3,4	OFF: No device connected Green fixed: Gateway is UP Green blink: data access/activity
USB	OFF: No device connected Green fixed: Link is UP Green blink: Device under recognition phase. If the flash persists, the device does not work properly
BRI 1,2,3,4	OFF: Line unregistered to the SIP server Green fixed: Line is UP
FXS 1,2,3,4	OFF: Line unregistered to the SIP server Green fixed: Line is UP
POWER LTE	OFF: CPE turned off Green fixed: device is powered on Green blink: CPE startup after turning on or restart

INTERFACES PIN-OUT INFORMATION

CONSOLE PORT	- Pin 1,2,7,8: Not connected - Pin 3: RX - Pin 4,5: Ground - Pin 6: TX NOTE Console Port in "Aux" working mode, use RJ45-RJ45 cable w/ inverted pin (1-8, 2-7, 3-6, 4-5)
RJ-45 ETH PORTS	- Pin 1: White orange - Pin 2: Orange - Pin 3: White green - Pin 4: Blue - Pin 5: White blue - Pin 6: Green - Pin 7: White brown - Pin 8: Brown

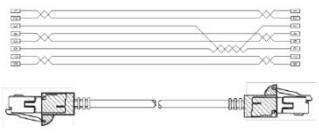
PORTS PIN-OUT INFORMATION

A/VDSL PORT	- Pin 1,2,5,6: Not connected - Pin 3,4: Connected
CONSOLE PORT	- Pin 1,2,7,8: Not connected - Pin 3: Rx - Pin 6: Tx - Pin 4,5: Ground
FXS PORTS	- Pin 1,2,5,6 Not connected - Pin 3,4 Connected
ISDN BRI PORTS	- Pin 1,2,7,8: Not connected - Pin 3: Rx (+) - Pin 4: Tx (+) - Pin 5: Tx (-) - Pin 6: Rx (-)

BACK PANEL ANTENNA CONNECTORS

DIV	LTE Antenna (optional)	MAIN	LTE Antenna (optional)
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CABLE CONFIGURATIONS

 Figure 3: ISDN BRI Straight NT Cable.	 Figure 4: ISDN BRI Cross TE Cable.
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Available Configurations

Please connect to www.aethra.com or contact your sales representative for the list of available configurations.

Aethra Telecommunications Serie BG8500H

Panoramica

I router e dispositivi di accesso integrati della serie Aethra Telecommunications BG8500H supportano il nuovo profilo VDSL2 35b, offrendo velocità ultrabroadband fino a 300 Mbps. Tutte le configurazioni includono anche un'interfaccia WAN combo GE / SFP per la connettività FTTH, e, su modelli selezionati, una WAN mobile 3G / LTE per l'accesso ibrido.

Contenuto dell'imballo

La confezione include:

- 1 x Router Business Serie BG8500H
- 2 x Guida rapida e avvisi di sicurezza
- 1 x Alimentatore AC/DC switching
- 1 x Cavo Console RS232-RJ45
- 1 x Kit di montaggio a muro
- (opzionale) 1 x cavi RJ11-RJ11 di 2m
- (opzionale) 2 x Antenne LTE

Connettori, Interfacce ed Indicatori LED

Nell'immagine seguente sono mostrate le configurazioni del pannello anteriore e posteriore del dispositivo.

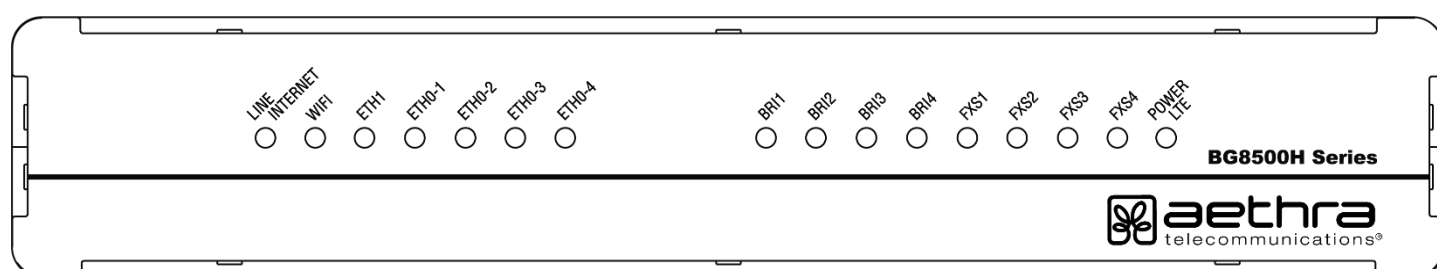


Figura 1: Pannello anteriore di Aethra Telecommunications Serie BG8500H.

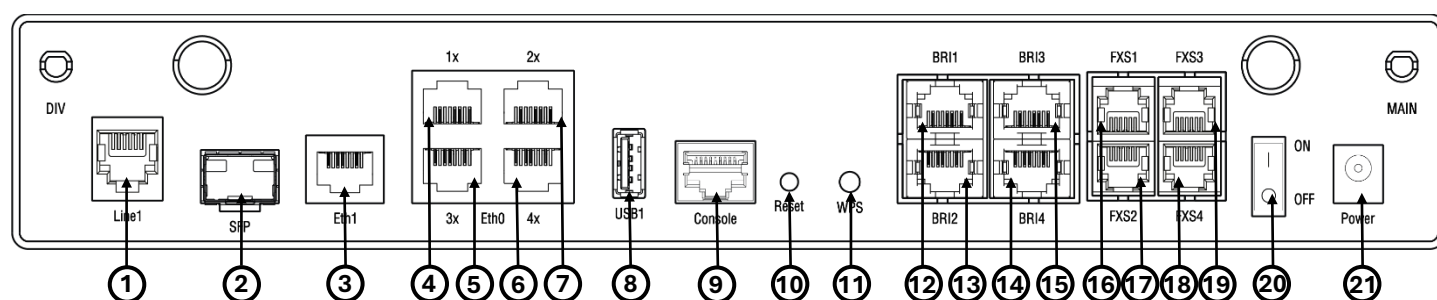


Figura 2: Pannello posteriore di Aethra Telecommunications Serie BG8500H.

INTERFACCE E CONNETTORI SUL PANNELLO ANTERIORE

1	A/VDSL	10	Pulsante di Reset
2	Porta SFP	11	Pulsante WPS
3	Porta RJ-45 Wan	12	Porta ISDN BRI
4	Porta RJ-45 Lan GE	13	Porta ISDN BRI
5	Porta RJ-45 Lan GE	14	Porta ISDN BRI
6	Porta RJ-45 Lan GE	15	Porta ISDN BRI
7	Porta RJ-45 Lan GE	16	Porta FXS
8	Porta USB 2.0	17	Porta FXS
9	Porta Console	18	Porta FXS
19	Porta FXS	21	18V Input Power
20	Pulsante On / Off		

INDICATORI LED SUL PANNELLO ANTERIORE

LINE INTERNET	Spento: Nessuna connessione xDSL Verde fisso: Linea VDSL2 o ADSL connessa alla centrale (CO) Rosso fisso: Linea connessa. In attesa di ricevere l'indirizzo gateway da IPCP o server DHCP sulla WAN Verde lampeggiante: Linea connessa con traffico IP in entrata/uscita sulla WAN Rosso lampeggiante: Livello fisico VDSL2 / ADSL in fase di configurazione o connessione fallita (nessuna linea)
WiFi	Spento: Interfaccia wireless disabilitata Verde fisso: Interfaccia Wi-Fi attiva Verde lampeggiante: Accesso/attività dati
ETH1	Spento: Nessun dispositivo connesso Verde fisso: Interfaccia mobile attiva Verde lampeggiante: Accesso/attività dati
ETH0-1,2,3,4	Spento: Nessun dispositivo connesso Verde fisso: Gateway attivo Verde lampeggiante: Accesso/attività dati
USB	Spento: Nessun dispositivo connesso Verde fisso: Collegamento attivo Verde lampeggiante: Dispositivo in fase di riconoscimento. Se il lampeggio persiste, il dispositivo non funziona correttamente
BRI 1,2,3,4	Spento: Linea non registrata al server SIP Verde fisso: Linea attiva
FXS 1,2,3,4	Spento: Linea non registrata al server SIP Verde fisso: Linea attiva
POWER LTE	Spento: CPE spento Verde fisso: Dispositivo acceso Verde lampeggiante: Avvio del CPE dopo l'accensione o il riavvio

PIEDINATURA DELLE PORTE DI INTERFACCIA

PORTA CONSOLE	- Pin 1,2,7,8: Non connesso - Pin 3: RX - Pin 4,5: Massa - Pin 6: TX NOTA Porta console in modalità "Aux", utilizzare un cavo RJ45-RJ45 con pin invertiti (1-8, 2-7, 3-6, 4-5)
PORTE ETH RJ-45	- Pin 1: Bianco Arancione - Pin 2: Arancione - Pin 3: Bianco Verde - Pin 4: Blu - Pin 5: Bianco Blu - Pin 6: Verde - Pin 7: Bianco Marrone - Pin 8: Marrone

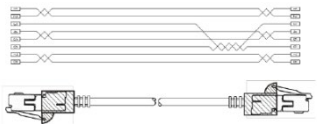
PIEDINATURA DELLE PORTE DI INTERFACCIA

PORTA A/VDSL	- Pin 1,2,5,6: Non connesso - Pin 3,4: Connesso
PORTA CONSOLE	- Pin 1,2,7,8: Non connesso - Pin 3: Rx - Pin 6: Tx - Pin 4,5: Massa
PORTA FXS	- Pin 1,2,5,6 Non connesso - Pin 3,4 Connesso
PORTA ISDN BRI	- Pin 1,2,7,8: Non connesso - Pin 3: Rx (+) - Pin 4: Tx (+) - Pin 5: Tx (-) - Pin 6: Rx (-)

CONNETTORI DELLE ANTENNE SUL PANNELLO POSTERIORE

DIV	Antenna LTE (opzionale)	MAIN	Antenna LTE (opzionale)
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CONFIGURAZIONE DEI CAVI

 Figure 3: ISDN BRI Straight NT Cable.	 Figure 4: ISDN BRI Cross TE Cable.
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Configurazioni disponibili

Per una lista delle configurazioni disponibili per il dispositivo visitare il sito www.aethra.com o contattare il distributore.

A TLC S.r.l.

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Orderable Part Numbers and Configurations

PART NUMBER	MODEL	DESCRIPTION
708190470	BG8500H	BUSINESS ROUTER, 1X A/VD SL2, 1X GE and SFP, 4X GE, 1X USB 2.0
708190471	BG8500HL	BUSINESS ROUTER, 1X A/VD SL2, 1X GE and SFP, 4X GE, 1X USB 2.0, LTE cat.4
708190472	BG8500HWAX	BUSINESS ROUTER, 1X A/VD SL2, 1X GE and SFP, 4X GE, 1X USB 2.0, WiFi ax 2x2x2
708190473	BG8500HLWAX	BUSINESS ROUTER, 1X A/VD SL2, 1X GE and SFP, 4X GE, 1X USB 2.0, LTE cat.4, WiFi ax 2x2x2
708190474	BG8520H	BUSINESS ROUTER, 1X A/VD SL2, 1X GE and SFP, 4X GE, 1X USB 2.0, 2xFXS
708190477	BG8520HWAX	BUSINESS ROUTER, 1X A/VD SL2, 1X GE and SFP, 4X GE, 1X USB 2.0, WiFi ax 2x2x2, 2xFXS
708190478	BG8542H	BUSINESS ROUTER, 1X A/VD SL2, 1X GE and SFP, 4X GE, 1X USB 2.0, 4xFXS, 2xISDN BRI
708190479	BG8542HWAX	BUSINESS ROUTER, 1X A/VD SL2, 1X GE and SFP, 4X GE, 1X USB 2.0, WiFi ax 2x2x2, 4xFXS, 2xISDN BRI
708190464	BG8544H	BUSINESS ROUTER, 1X A/VD SL2, 1X GE and SFP, 4X GE, 1X USB 2.0, 4xFXS, 4xISDN BRI
708190463	BG8544HWAX	BUSINESS ROUTER, 1X A/VD SL2, 1X GE and SFP, 4X GE, 1X USB 2.0, WiFi ax 2x2x2, 4xFXS, 4xISDN BRI