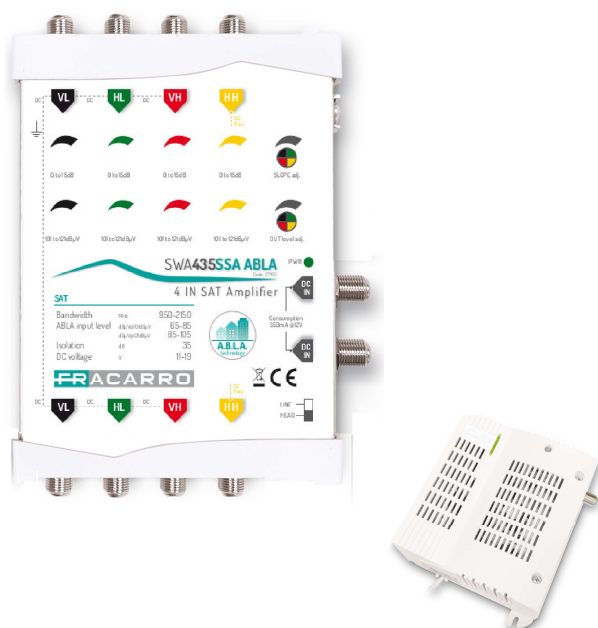


HEAD SAT AMPLIFIER WITH A.B.L.A.

AMP435SA, AMP435SSA e
SWA435SSA

Head amplifier (AMP) or **line amplifier (SWA)** with 4 SAT inputs; **output level adjustment** with A.B.L.A. technology (SA and SSA models) and **slope adjustment** (SSA model) for each SAT input

Thanks to **A.B.L.A. technology** (Automatic Building Level Adjustment), the amplifier maintains the set up output level also when input signal power varies

LEDs A.B.L.A. turn on when automatic output level adjustment is properly working; if input level is too low, the LED turns off and the product became a common SAT amplifier with maximum gain (36dB) adjustable (20dB)

External PSU1214 (12V, 1450mA) **included** on AMP packaging, **optional** on SWA models

Mains Specifications

- Thanks to **A.B.L.A. technology** (Automatic Building Level Adjustment), the amplifier maintains the set up output level also when input signal power varies
- High SAT **output level** (121dB μ V) and optimum **inputs isolation** (35dB)
- Ideal for **medium and big installation** or where there are long cable drops between the switches
- **External PSU1214** (12V, 1450mA) **included** on AMP packaging, **optional** on SWA models
- **Remotely fed through SAT lines 1 (VL), 2 (HL) and 3 (VH) or using the DC connector** placed on the right side; the same product can thus be used both as **head amplifier** and as **line amplifier**
- **HH SAT line DC pass** and current pass from **DC port** to the top and also to the bottom part of the system, short circuit protected and **dip-switch controlled** on the right side of the product
- **Double PSU port** to offer an higher system strength, with overcurrent protection on DC ports
- Easy to install, thanks to **new adjustment trimmers** and standard colour coding

		AMP435SA ABLA	AMP435SSA ABLA	SWA435SSA ABLA
Fracarro code		271173	271171	271172
Input		4 SAT	4 SAT	4 SAT
Satellite				
Bandwidth	MHz	950-2150	950-2150	950-2150
Gain	dB	Self adjusted A.B.L.A. 16-36	Self adjusted A.B.L.A. 16-36	Self adjusted A.B.L.A. 16-36
Input A.B.L.A. level*	dB μ V	It depends on selected output level 65-85 @101dB μ V 85-105 @121dB μ V	It depends on selected output level 65-85 @101dB μ V 85-105 @121dB μ V	It depends on selected output level 65-85 @101dB μ V 85-105 @121dB μ V
Slope	dB	6	15	15
Slope adjustment	dB	-	15	15
Return loss	dB	10	10	10
Output adjustable level*	dB μ V	101-121	101-121	101-121
SAT-SAT isolation	dB	\geq 35	\geq 35	\geq 35
General characteristics				
Mains voltage	V, Hz	220-240V, 50-60Hz	220-240V, 50-60Hz	11-19V
Absorption	mA, V	550, 12	550, 12	550, 12
DC ports voltage	V	11-19	11-19	11-19
Maximum LNB current	mA	900	900	-
Maximum SAT current	mA	2000	2000	2000
Dimensions	mm	160x110x30	160x110x30	160x110x30
PSU dimensions	mm	145x120x70	145x120x70	Not included
Operating temperature	$^{\circ}$ C	-10 \div +55	-10 \div +55	-10 \div +55

Code	Article	Packaging	Quantity	Dimensions	Single weight	Total weight
			Pieces	mm	kg	kg
271173	AMP435SA ABLA	Single	1	240x185x70	790	810
271171	AMP435SSA ABLA	Single	1	240x185x70	790	810
271172	SWA435SSA ABLA	Single	1	215x125x35	400	415

*Overall power
-12dB to get single transponder signal power

A.B.L.A. Technology

INPUT signal*	OUTPUT set up signal*				
	101dB μ V	106dB μ V	111dB μ V	116dB μ V	121dB μ V
55dB μ V	X	X	X	X	X
60dB μ V	X	X	X	X	X
65dB μ V	V	X	X	X	X
70dB μ V	V	V	X	X	X
75dB μ V	V	V	V	X	X
80dB μ V	V	V	V	V	X
85dB μ V	V	V	V	V	V
90dB μ V	X	V	V	V	V
95dB μ V	X	X	V	V	V
100dB μ V	X	X	X	V	V
105dB μ V	X	X	X	X	V

* Overall power
-12dB to get single transponder signal power

AMP435SA, AMP435SSA and SWA435SSA has **A.B.L.A. technology** inside (Automatic Building Level Adjustment); thanks to it, it is possible to **set the output level up** and the amplifier maintains this level also when input signal power varies.

The LED can be used also as **monitoring**, when it is on, input signal level will be **into signal range**; when the LED is off, also if input signal level doesn't respect power requirements to maintain a fixed output level, these products work as **a normal SAT amplifier**, with 36dB gain and 20dB adjustment

Input signal level range varies depending on desired output signal power; to calculate it, it is possible to follow previous table or calculate it with the following formula:

Minimum INPUT signal power = desired OUTPUT signal power - 36 dB

Maximum INPUT signal power = desired OUTPUT signal power - 16 dB

Selectable HEAD and LINE mode

The big difference with previous models concerns the **flexibility with which it is possible to use AMP and SWA both as head amplifiers and as line amplifiers**.

Thanks to the **dip switch** on the product mechanic side, it is possible to define if the product has to be fed through its **DC-IN ports** or through its **passing SAT lines**; when the PSU is connected to the product, the dip switch can be used to share this voltage **both on input and on output ports**, or decide to feed **only the upper system part**; in this way it isn't necessary to install DC-BLOCKS on output ports to block DC pass through switch cascade.

	MODALITY	WITH PSU	WITHOUT PSU
HEAD	DC is passed with current protection to input ports to feed an LNB and it is blocked to output ports	The amplifier is fed from DC ports and it sends remote power to input ports	The product doesn't work because a PSU is needed, in this case insert a PSU or switch to "LINE" mode
LINE	DC is passed both to input ports and to output ports to feed the entire cascable system	The amplifier send remote power through entire cascable system with over current protection, to feed an LNB on input ports and the switches on output ports with only one PSU connected on DC ports	The product is fed by its output ports and it send the remote power to input ports, without current limitation.

The product won't be fed by **HH line**, this SAT port is used **to pass directly the remote power**, without any amplifier current absorption; it can be used **to feed an LNB with a remote PSU**.

Installation example

