

Wideband amplifier with Automatic Gain and Slope Control

The TSWA-1 Wideband Amplifier optimises your Wideband Vertical and Horizontal signals, off the LNB, using Automatic Gain Control (AGC) and Automatic Slope Control (ASC). This gives an optimal input power for the Satellite Optical Transmitter (TSOT).

The amplifier can be line powered and also passes the power through to the LNB. If no line power is available, the amplifier has a DC input (Jack), to power the amplifier and LNB.

The amplifier has LED indicators to show when the AGC and ASC are in range. Left LED's is Slope & Gain of the left SAT input. Right LED indicators is monitoring the right SAT input.

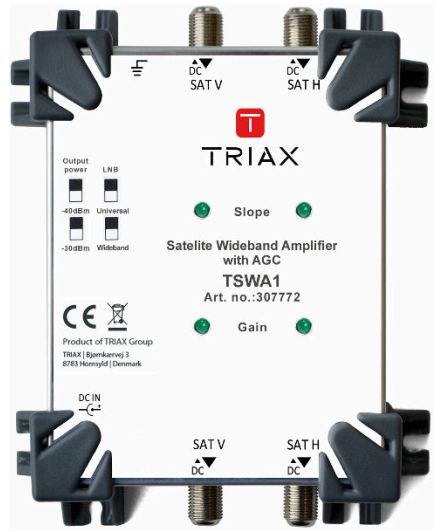
Solid	RED	Signal too strong, cable too short, move the amplifier further away from source.
Blinking	RED	Signal too low, cable too long, move the amplifier more close to the source.
Solid	GREEN	Within range, signal level has the correct level

BOTH Gain and SLOPE LED's should be green to guarantee that the average output level is correct. When LED's are red (regardless of state) it is not a good sign and it is advisable to take the appropriated steps described above.

SLOPE LED checks the level at 300 MHz

GAIN LED only checks the level around 2000 MHz

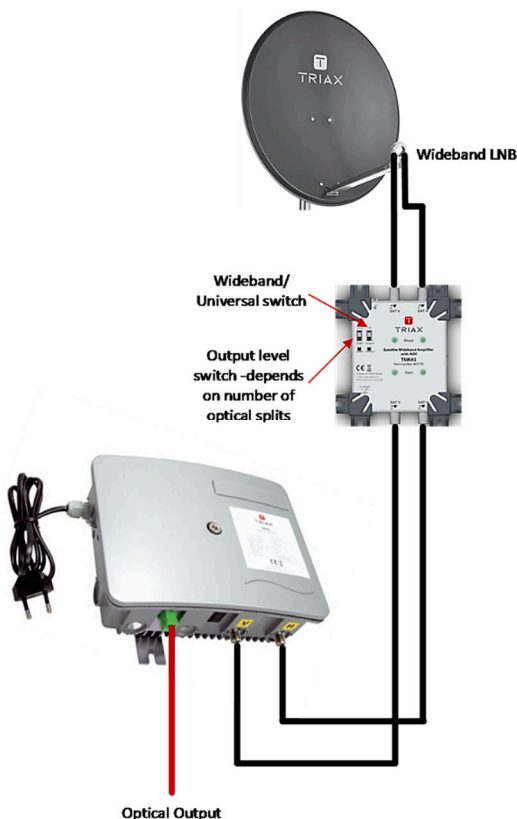
The amplifier has selectable inputs between Wideband LNB (290 - 2400 MHz) and Universal LNB (950 - 2150 MHz). Output level is selectable for up to 16 splits, or more than 17 splits (for Fibre Optic Systems)



Quick Guide

Article name		Article no.
TSWA-1 Satellite Wideband Amplifier w/ AGC		307772
Version	A	Date 04/2020
		EN

TSWA-1		
Inputs	-	2 SAT (V/H)
Outputs	-	2 SAT (V/H)
Frequency range	MHz	290-2400 (Wideband) or 950-2150 (Universal)
Gain	dB	20
Noise figure	dB	5
Gain adjustment	dB	20 (Automatic Gain Control)
Slope adjustment	dB	15 (Automatic Slope Control)
Output level per Transponder	dBμV	70 (Switch position 1 = 4 to 16 splits) 77 (Switch position 2 = 17 to 64 splits)
Consumption	-	150 mA from 12...20 VDC external power supply or trunk
Dimensions	mm	129 x 114 x 51
Weight	kg	0.3



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