

# User Manual

TSWA – TWT2 – TWS2

Article		Article no.		
TSWA	Satellite Wideband Amplifier Wideband Tap Wideband Splitter	307777		
TWT2		307778		
TWS2		307779		
Version	1.0	Date	09/2019	EN

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### 1. Features

The **TWSA amplifier** is designed for wideband applications, where satellite frequencies from 290 MHz to 2340 MHz are used. The amplifier has two inputs, one for the vertical and one for the horizontal feed. The low band and high bands are combined on one feed. This amplifier is compatible with wideband LNBS

Inputs		2 SAT
Outputs		2 SAT
Frequency range	MHz	290...2340
Gain	dB	30
Noise figure	dB	5
Gain adjustment	dB	15
Slope adjustment	dB	15
Max. output level	dBuV	117 (-35dB/IM3)
Power consumption	W	3
Dimensions	mm	177 x 133 x 51

The **TWT2 tap** is designed to be used with Wideband systems with Satellite IF frequencies from 290 MHz to 2340 MHz, and Terrestrial frequencies between 5 MHz and 862 MHz

Inputs		2 SAT+1 TERR
Outputs		2 x 2 SAT (V+H) + 2 TERR
Frequency range	MHz	290...2340 (@SAT) 5...862 (@TERR)
Tap Loss TERR	dB	13
Tap Loss SAT	dB	11
Trunk Loss TERR	dB	1.5...2.0
Trunk Loss SAT	dB	2
Dimensions	mm	130 x 130 x 50

The **TWS2 splitter** is designed to be used with Wideband systems with Satellite IF frequencies from 290 MHz to 2340 MHz, and Terrestrial frequencies between 5 MHz and 862 MHz

Inputs		2 SAT (V+H) +1 TERR
Outputs		2 x 2 SAT (V+H) + 2 TERR
Frequency range	MHz	290...2340 (@SAT) 5...862 (@TERR)
Output Loss TERR	dB	3.5...4.0
Output Loss SAT	dB	4...5
Dimensions	mm	130 x 130 x 50

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## 2. Safety instructions

Please read these instructions carefully before connecting the unit. The operating voltage is indicated on the adapter.

To prevent fire, short circuit or shock hazard:

- Do not expose the unit to rain or moisture.
- Install the unit in a dry location without the risk of condensation of water ingress.
- If the unit is exposed to any liquids, disconnect the power plug immediately.

Maintenance

- Only use a dry soft cloth to clean the unit
- Do not use solvents.
- For repairing and servicing refer to qualified personnel.
- Dispose according to your local authority's recycling processes.

To avoid any risk of overheating:

- Install the unit in a well ventilated location and keep a minimum of 150 mm around the apparatus for sufficient ventilation.
- Do not cover the ventilation holes.
- The unit must not be exposed to any source of heat (sun, heater,...).
- Install the product in a clean dust free location.
- Adhere to the minimum and maximum temperature specifications. To avoid any risk of electrical shocks:
- Connect apparatus only to a socket with protective earth connection.
- Only power up the unit when all the connections have been made.
- To avoid electrical shock, do not open the housing of the unit.

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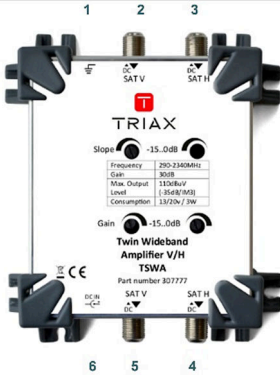
## 3. Conditions of Warranty

Please contact your point of purchase for details of warranty supplied.

ANY WARRANTY APPLIED DOES NOT COVER DAMAGE RESULTING FROM:

- Misuse or use of the product out of its specifications.
  - Installation or use in a manner inconsistent with the technical or safety standards in force in the country where the product is used
  - Use of non-suitable accessories (power supply, adapters...)
  - Installation in a defect system
  - External causes due to installation issues, for example, drop, accidents, lightning, water, fire, improper ventilation
  - Production date or serial number on the product is illegible, altered, deleted or removed
  - The product has been opened or repaired by a non-authorized person
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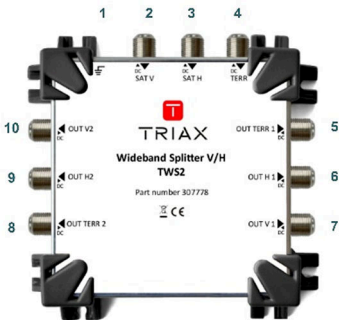
## 4. How to connect



- (1) Earth connection
- (2) LNB output 1 (Vertical)
- (3) LNB output 2 (Horizontal)
- (4) Trunk output 2 (Horizontal)
- (5) Trunk output 1 (Vertical)
- (6) Power supply connection

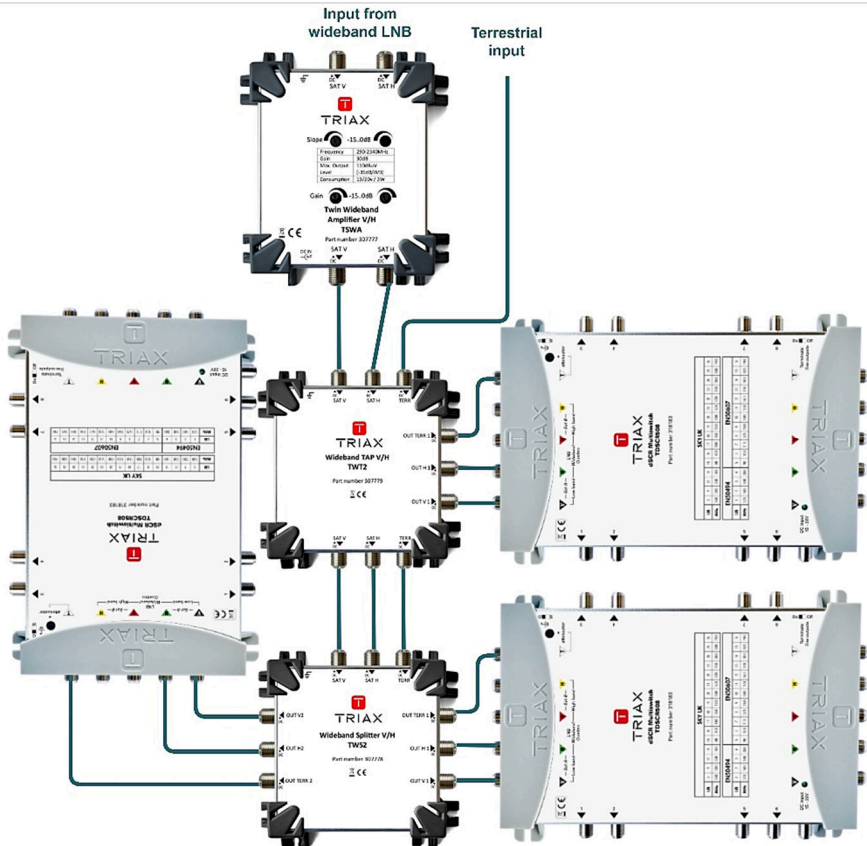


- (1) Earth connection
- (2) Tap input (Vertical)
- (3) Tap input (Horizontal)
- (4) Tap input (Terrestrial)
- (5) Tap output 1 (Terrestrial)
- (6) Tap output 1 (Horizontal)
- (7) Tap output 1 (Vertical)
- (8) Tap output 2 (Terrestrial)
- (9) Tap output 2 (Horizontal)
- (10) Tap output 2 (Vertical)

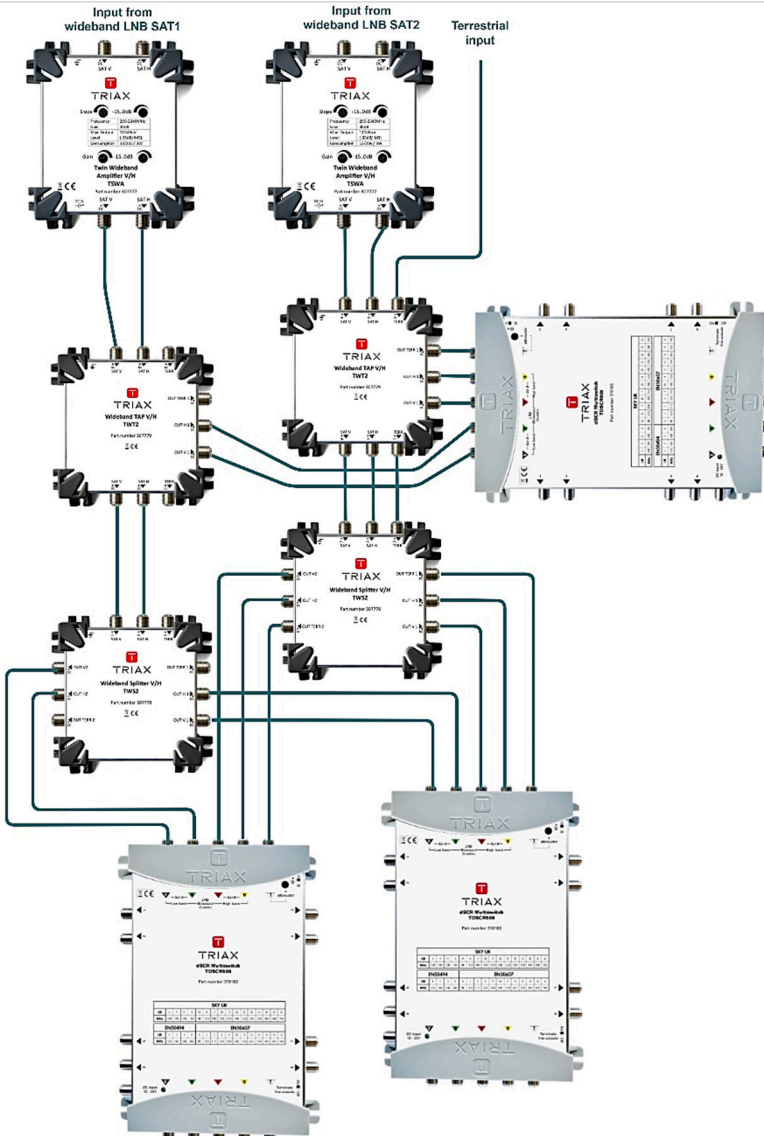


- (1) Earth connection
- (2) Splitter input (Vertical)
- (3) Splitter input (Horizontal)
- (4) Splitter input (Terrestrial)
- (5) Splitter output 1 (Terrestrial)
- (6) Splitter output 1 (Horizontal)
- (7) Splitter output 1 (Vertical)
- (8) Splitter output 2 (Terrestrial)
- (9) Splitter output 2 (Horizontal)
- (10) Splitter output 2 (Vertical)

## 5. Applications – single satellite position



## 6. Applications – 2 satellite positions







## Information and manuals:

Information og brugervejledninger:  
Information och manualer:  
Information und Bedienungsanleitungen:  
Informations et modes d'emploi:  
Información y manuales:  
Lisätietoja ja oppaita:  
információk és útmutatók:

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