

Standard offer for TBS Mini soundsystem, aircraft application

Please check valid prices on www.benedini.de

Please answer the following questions for providing the best fitting sound system for your model:

Which sound do you want to have preloaded ?

What is the desired control mode ?

("direct soundselection" is recommended for planes -> see description below)

What is the voltage of the main batteries?

What is the max. size/weight of the speakers your model can afford?

Is it a foam model?

Recommended items:

Soundunit TBS Mini

Amplifier:

1x40W digital audio amplifier (weight: 6g, 24x60x15mm)

Speakers, depending on space conditions:

2pcs R10S speakers (100x100x38mm, 160g weigth) (**ideal** speaker configuration)

OR

2pcs SPX-21 speaker Lautsprecher (90g, 50x50x34mm)

As an **alternative** for conventional speakers, so called "Exciter" or "Transducer" can be used.

They are glued simply inside the hull of the plane, without cutting any wholes. This solution is ideal for light weight foam models.

Optional accessory:

- Audio-Isolator: 18 Euro

(recommended if the main/drive battery is used for powering the amplifier)

- USB programming cable: 18 Euro

Shipping is done usually as registered but NOT insured letter.

Price within Europe: about 13 Euro (depending on weight)

All prices include 19% German VAT.

If you are located outside the european union, the VAT does NOT need to be payed.

Methods of payment:

1. PayPal, 4% fees of the total amount are charged.
2. Normal bank transfer by using the IBAN / SWIFT code, supplied by me.

Delivery takes about 1-2 weeks.

When the order is completed, I will send you an e-mail and the money can be tranfered.

After reception the package will be shipped.

Looking forward to your reply.

P.S.:

Please reply by E-Mails to thomas@benedini.de

I try to respond within 3 working days.

Thank you very much for your patience.

The rest of this mail is my standard offer for airplanes.

It gives some technical and order informations.

If you have any further questions, just let me know.

The soundsystem will be delivered „ready to run“, preloaded with your desired configuration.

The only solder work to be done is connecting the speaker(s) and power supply to the amplifier. All other connections are plugged.

Overview of the possible control modes

1. Autostart

This is the most simple way of controlling the sound unit. No extra prop. channel is necessary.

The first displacement of the throttle stick starts the engine. If the engine runs 20s idle, it is shut down automatically.

Note:

- In this control mode, NO special sounds (f.e. MG sound) are possible !
- Scale looking synchronization of motor start up sound and propeller rotation is not possible !

2. Indirect sound selection

A spare proportional channel, having a 3 position switch(toggle switch) at the TX is necessary.

The desired sound (f.e. sound #3) is **SELECTED** by pushing the switch 3x in one direction.

The selected sound is **TRIGGERED** by pushing the switch in the other direction. A common joy stick channel can also be used.

All available special sounds, as well as the switching outputs of the TBS Mini can be used.

3. Direct sound selection (This mode is recommended for airplanes)

A normal prop.channel with 3 position switch (or joy stick) on your radio is used to to start/stop the engine by pushing it in one direction.

A special sound (f.e. gun) is triggered by pushing the joy stick in the other direction.

The special sound is factory set and can be changed only by the optional programming cable.

4. Encoder control

This is a rotary switch combined with a push button, installed in the TX. The desired sound is selected by the rotary switch and is started by the push button. It must be installed by your own in the transmitter and has to be connected at a spare prop.channel.

The encoder must be ordered separately!

Encoder control is the most convenient mode of controlling the soundunit, specially when the whole range of its functionality is used.

The encoder is recommended for models with a lot of special functions, like tanks, trucks, boats,...

Note:

The encoder is tested in different transmitters. It is not guaranteed to work well in all available transmitter brands.

The installation in the transmitter is on your own risk.

There are different external amplifiers available:

Aircraft applications: 1x40W digital audio amplifier, 10-26V (3-**6S**), weight 8g.
For other application (f.e. tanks) please send a request.

Hint for using the main battery for powering the external amplifier:

To maintain a **galvanic isolation** between drive and receiver supply, a „Audio-Isolator“ is available. It is simply plugged between soundunit and amplifier. This device is highly recommended if a “Opto-ESC“ is already used.

Another advantage of the device is the possibility of using the 1x40W amplifier together with main batteries having **more than 6S**, as long as they are “build” by two identical batteries.

(f.e. building a **12S** out of **2x6S** LiPos connected in series).

ONE of the 6S can be used for powering the 1x40W amplifier. The additional load can be neglected in comparison the motor current.

Price: 16 Euro

The recommended base soundsystem for aircrafts consists of:

1. Soundunit TBS Mini with your desired sound and "Autostart" control mode (Weight: 4 gram)
2. 1x40W amplifier (Weight: 8 gram)
3. One or two R10S speaker (100x100mm, weight 160g)

http://www.visaton.com/en/chassis_zubehoer/breitband/r10s_4.html

OR

two SPH-21

<https://www.monacor.de/produkte/components/lautsprechertechnik/miniaturlautsprecher/spx-21m/>

If you have further questions, you are welcome!

With kind regards

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