

FG4449G01 active GPS 8x Power Splitter

Active GPS antenna splitter for GPS L1 antenna signal with 8 outputs and signal amplification.

Power supply via external voltage source

If only one GPS antenna for operating several GPS receivers can be installed (due to structural or other reasons), it is however possible to operate up to 8 GPS receivers with one common GPS antenna by using the active GPS antenna splitter 4449. This solution is often used in the context of superstructures for conducting device tests in laboratories or testing stations.

The active GPS antenna splitter 4449 contains 8 outputs and a signal amplification.

An external voltage source (18 - 60V DC, $I_{max} = 300mA$) for feeding the antenna splitter is necessary. Connection of the 8 outputs to the application can be done in any sequence. A system-internal power supply via the connected **hopf** GPS receivers is not necessary.

The active GPS antenna splitter 4449 is optionally available with a modification for connecting GPS receivers with antenna circuit monitoring. Due to this modification a current of approximately 13mA per each output is achieved for connection of the **hopf** GPS receivers.

Technical Data:

| General | |
|---|--|
| housing dimensions: (high frequency housing incl. mounting plate and connections) | 179 x 242 x 30mm (D x W x H) |
| power supply: external power supply | 18 - 60V DC, $I_{max} = 300mA$ |
| humidity: | 95% non-condensing |
| protection of housing: | IP50 |
| category of usage: | indoor, protected |
| MTBF value: | > 2,500,000 hours |
| weight: | approx. 1.2 kg |
| material | |
| high frequency housing: | aluminium |
| mounting plate: | plastics / PVC-CAW |
| connections | |
| input / outputs: | BNC-connector, other types of connections on request |
| power supply: | via soldering lugs |
| electrical characteristics | |
| impedance: | input / outputs 50 ohm |
| frequency range: | GPS L1, 1575 MHz |
| band width: | ± 50 MHz |
| power gain: | approx. 22 dB |
| temperature range | |
| operation: | -20° C to +80° C |
| storage: | -40° C to +85° C |