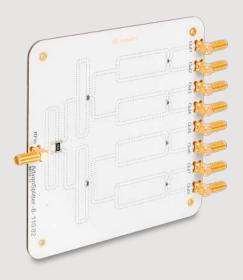


AdvanSplitter-8 ™ RFID UHF power splitter





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AdvanSplitter-8 ™ RFID UHF power splitter



Benefits:

- Higher speed to scan an area
- Combines different Keonn antennas, creating new antennas with longer read range and narrower beamwidth
- Very fast and easy connection
- Very low insertion loss
- Capable of supporting unbalanced loads

Applications:

- Smart shelves
- Any RFID application that requires high speed scan
- Any RFID application that requires
 long read ranges
- Any RFID application that requires narrow beamwidths

Product overview

AdvanSplitter-8 is a high performance eight port power splitter designed for RFID UHF applications.

AdvanSplitter-8 is ideal for systems where reading speed is critical and tag location is not determinant. AdvanSplitter-8 can feed up to 8 antennas simultaneously in order to scan an area much faster than using multiplexers.

AdvanSplitter-8 can also combine different Keonn antennas in new ways, creating new antennas with longer read range and narrower beamwidth.

AdvanSplitter-8 can therefore be used to create new antennas adapted to the needs of each RFID application. This flexibility allows to find the optimal antenna solution for any RFID project.

AdvanSplitter-8 has very low insertion loss, typically 0.7 dB above the 9 dB split.

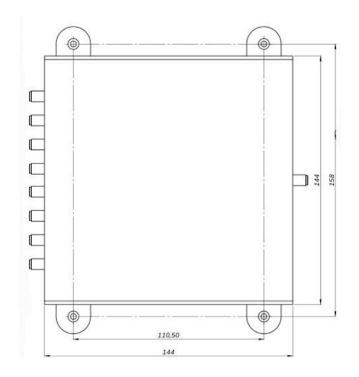
AdvanSplitter-8 has been designed to keep its performance even when one or some ports are not connected to any antenna.

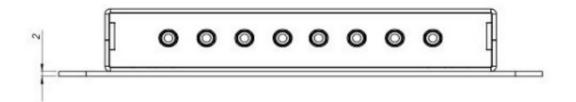
Technical specifications

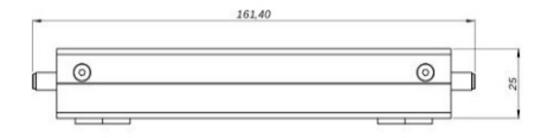
| Operating frequency | 860 MHz to 950 MHz | | |
|-------------------------------|--|--|--|
| Number of ports | 8 | | |
| Insertion loss (above 9 dB) | 1.1 dB (typ.), 1.4 dB (max.) | | |
| Input return loss | 14.0 dB (typ.), 11.0 dB (min). | | |
| Output return loss | 16.0 dB (typ.), 15.0 dB (min). | | |
| Maximum input power isolation | 24.0 dB (typ.), 20.0 dB (min). | | |
| Maximum input power | 33 dBm | | |
| Phase unbalance | < 1° | | |
| Amplitude unbalance | 0.3 dB | | |
| RF connectors | 1 input and 4 output SMA 50 ohm female connectors | | |
| Size with enclosure | 162 mm x 145 mm x 25 mm (6.4 inches x 5.7 inches x 1 inches) | | |
| Size without enclosure | 162 mm x 137 mm x 14 mm (6.4 inches x 5.4 inches x 0.6 inches) | | |
| Weight with enclosure | 330 gr (11.6 oz) | | |
| Weight without enclosure | 103 gr (3.6 oz) | | |
| Operating temperature | -30°C to 55°C | | |
| Storage temperature | -40 °C to 85 °C | | |
| EU Directives | RoHS compliant (2002/95/EC) | | |



Mechanical specifications







Units in millimeters and [inches]



Product codes for ordering

| ADSP | - | NP | - | F | ст | - | mmm | |
|------|---|----|---|---|-----|---|-----|--|
| | | | | | | | | NP = Number of Ports |
| | | 2 | | | | | | 2 ports |
| | | 4 | | | | | | 4 ports |
| | | 8 | | | | | | 8 ports |
| | | | | | | | | F = Frame |
| | | | | е | | | | Enclosure (only for model with 2 and 4 ports) |
| | | | | | | | | no enclosure |
| | | | | | | | | CT = connector type |
| | | | | | SMA | | | SMA Straight PCB mount |
| | | | | | MCX | | | MCX connector (only available in edge mount and flange straight) |
| | | | | | | | | mmm = Model |
| | | | | | | | 110 | Model number |

Examples:

ADSP-8-SMA-110:

- AdvanSplitter
- 8 ports
- without enclosure
- SMA connector type
- Model 110

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