

TRANTEC SYSTEMS

S4000ADU ANTENNA DISTRIBUTION UNIT OPERATING INSTRUCTIONS



Introduction:

The S4000ADU antenna distribution unit is designed to allow the use of a single pair of antennas with up to 5 receivers. For larger systems, one of the outputs is optimised for use feeding an additional ADU, allowing multiple ADUs to be cascaded each feeding up to four receivers. It is suitable for use with S4000, and S4000F receivers and can be rack mounted (1U, half width) using the S4000RK rack mount kit.

Connection:

Connect the two receiving antennas to the Antenna A and B inputs. Using the SMC-TNC cables provided, connect outputs 1 to 4 to the receiver antenna inputs for both channel A and B. The ADU Link output may be used to feed a fifth receiver or can be used to feed another ADU. In this case use the SMC-TNC cables to connect the ADU Link outputs of the first ADU to the antenna inputs of the second one. Connect the DC power input to a suitable Trantec DC power supply or to the ADU/RX output of an S4000PDU.

Operation:

With everything connected correctly, the receivers should function as normal. The ADU must be powered up to operate - this is indicated by the front panel power LED. By using one or more ADUs, a single pair of antennas can be optimally located and used to feed all the receivers in a system. Good quality RF cable should be used between the antennas and the first ADU. Each ADU output is individually buffered and has a gain of around +3dB to compensate for cable losses. If one output is short-circuited, the others will continue to operate normally.

Specifications:

Power Supply: 12-18v DC, 250mA, Centre Positive

Input: 2 x TNC, 50Ω; Bandwidth 30MHz, Centre Frequency as for specified TV channel

Output: 10 x SMC (2 Channels, 5 per Channel), 50Ω, +3dB, Individually Buffered



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