Signal Distributor SDU-3000

Features

- Extremely broad band
- Very high intercept points
- Good noise figure
- Compact units for rack mount
- 8 or 16 port versions
- HF/VHF and VHF/UHF versions
- Extremely rugged
- Meets military quality and environmental specifications

Product description

The unit is a high performance state of the art signal distributor based on advanced high-dynamic range signal routing and amplification technology. It could be used as antenna multicoupler or distributing any kind of signals in measurement or receiving systems in its operation range with high-dynamic range and low-distortion.

This signal routing unit reflect Sagax's ability to design and produce extremely broad band systems for surveillance and multiple frequency coverage.

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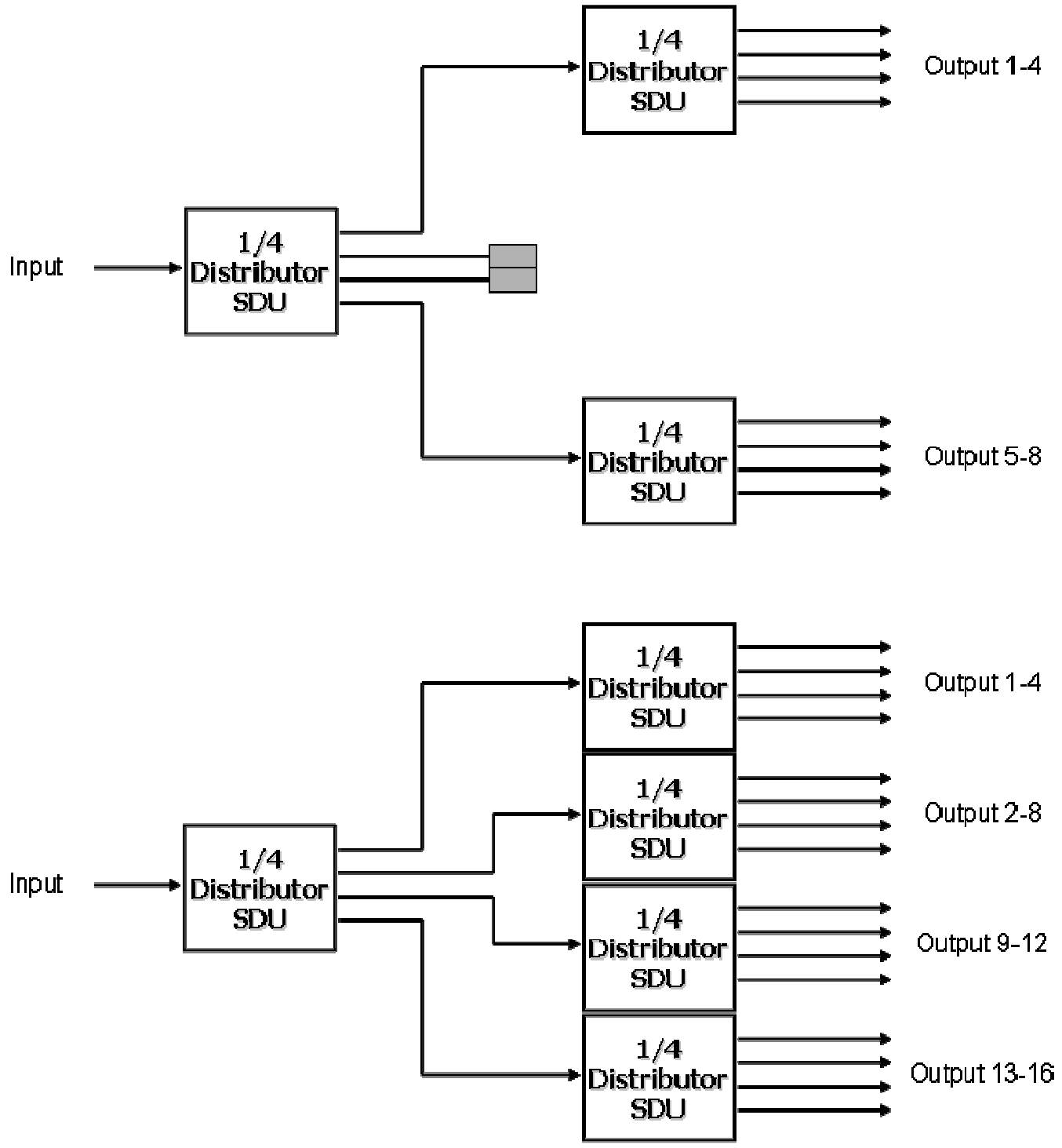
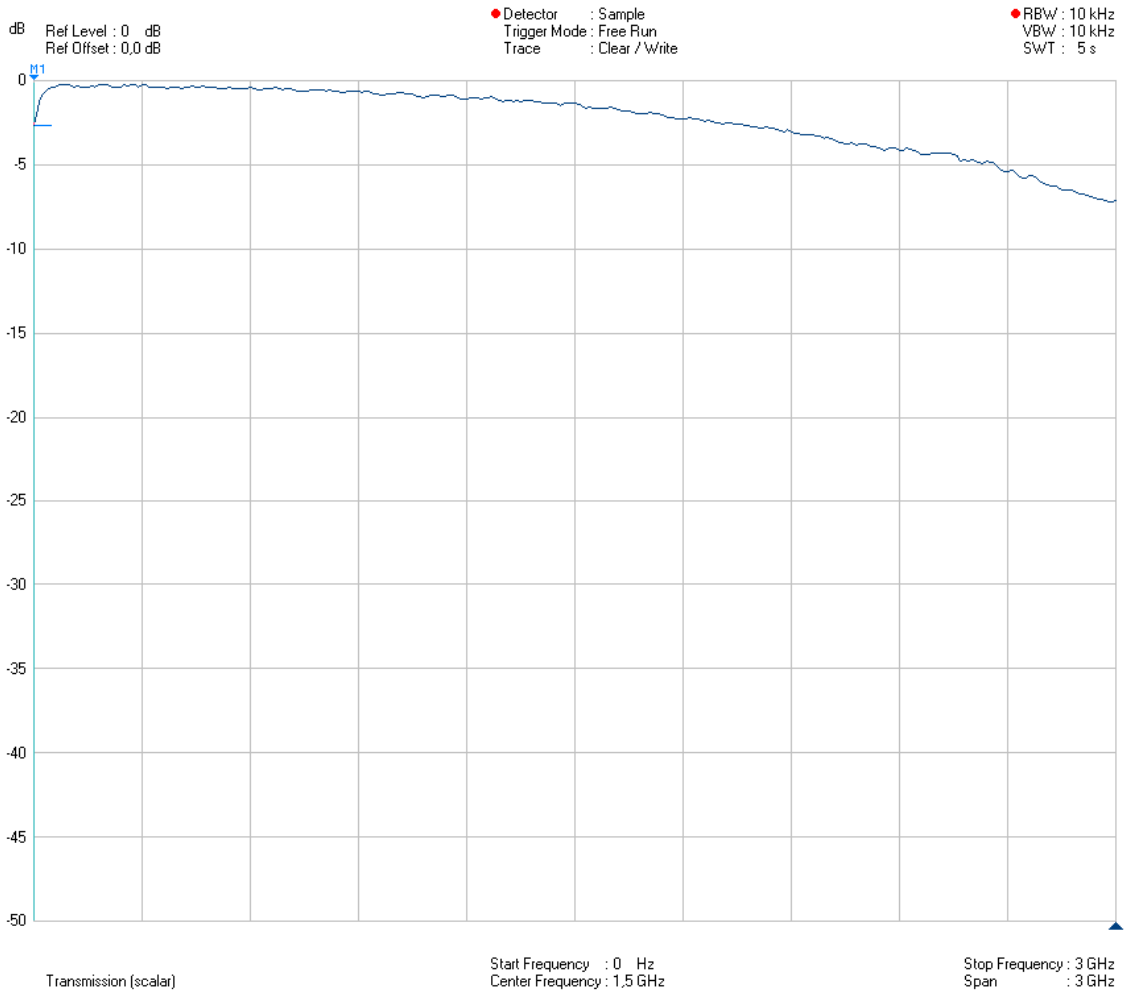
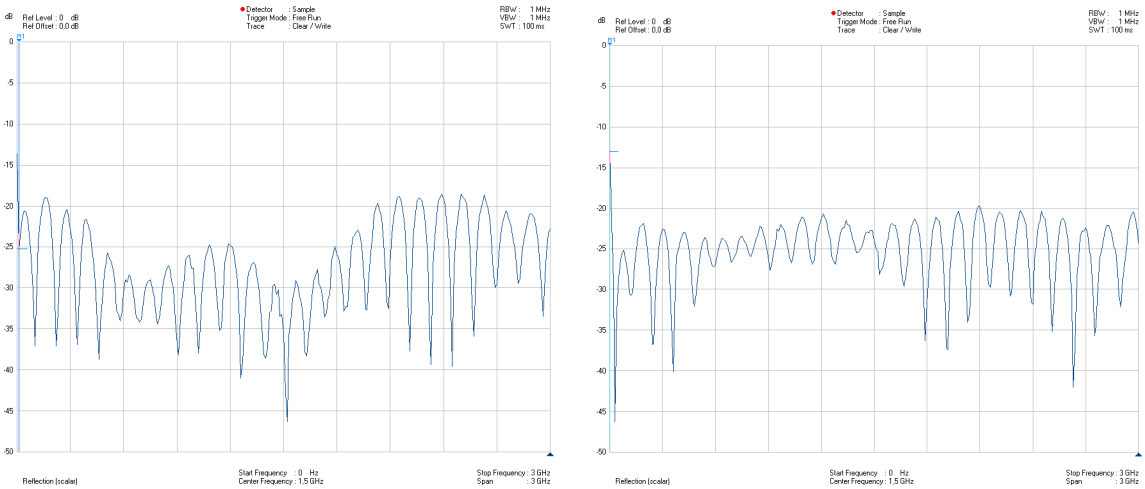
Functional block diagram



Typical performance



Insertion loss (VHF/UHF version)



Return loss at input and output port (VHF/UHF version)

Specification summary

Signal routing data	
Frequency range	20-3000MHz (VHF/UHF)
Number of inputs	1
Number of outputs	8 (SDU-3000-8) 16 (SDU-3000-16)
Input impedance	50 ohm
Output impedance	50 ohm
VSWR of input ports	MAX. 1:2.0
VSWR of output ports	MAX. 1:2.0
Gain	-2 dB +2dB/-6dB
Input power	15 dBm max.
Noise figure	6dB typ.
OIP3	25dBm typ.
OIP2	34dBm typ.
Input connectors	SMA-F
Output connectors	SMA-F
General data	
Environmental requirements	MIL STD 810D
Electromagnetic compatibility	MIL STD 461C
Power supply	12V DC operation Reverse polarity protected
Power consumption	5 W max.
Packaging	-8: 1U 19” (H44mm, W440mm, L100mm) -16: 2U 19” (H88mm, W440mm, L100mm)
Weight	2.5 kg
Operating temperature	-10°C to +50°C
Storage temperature	-30°C to +70°C
Relative humidity	95% maximum non condensing at 40°C