Signal Selector SSU-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 VFH/UHF version
- Extremely rugged
- Meets military quality and environmental specifications

Product description

The unit is a high performance state of the art signal selector based on advanced high-dynamic range signal routing and amplification technology. It could be used as antenna selector or selecting 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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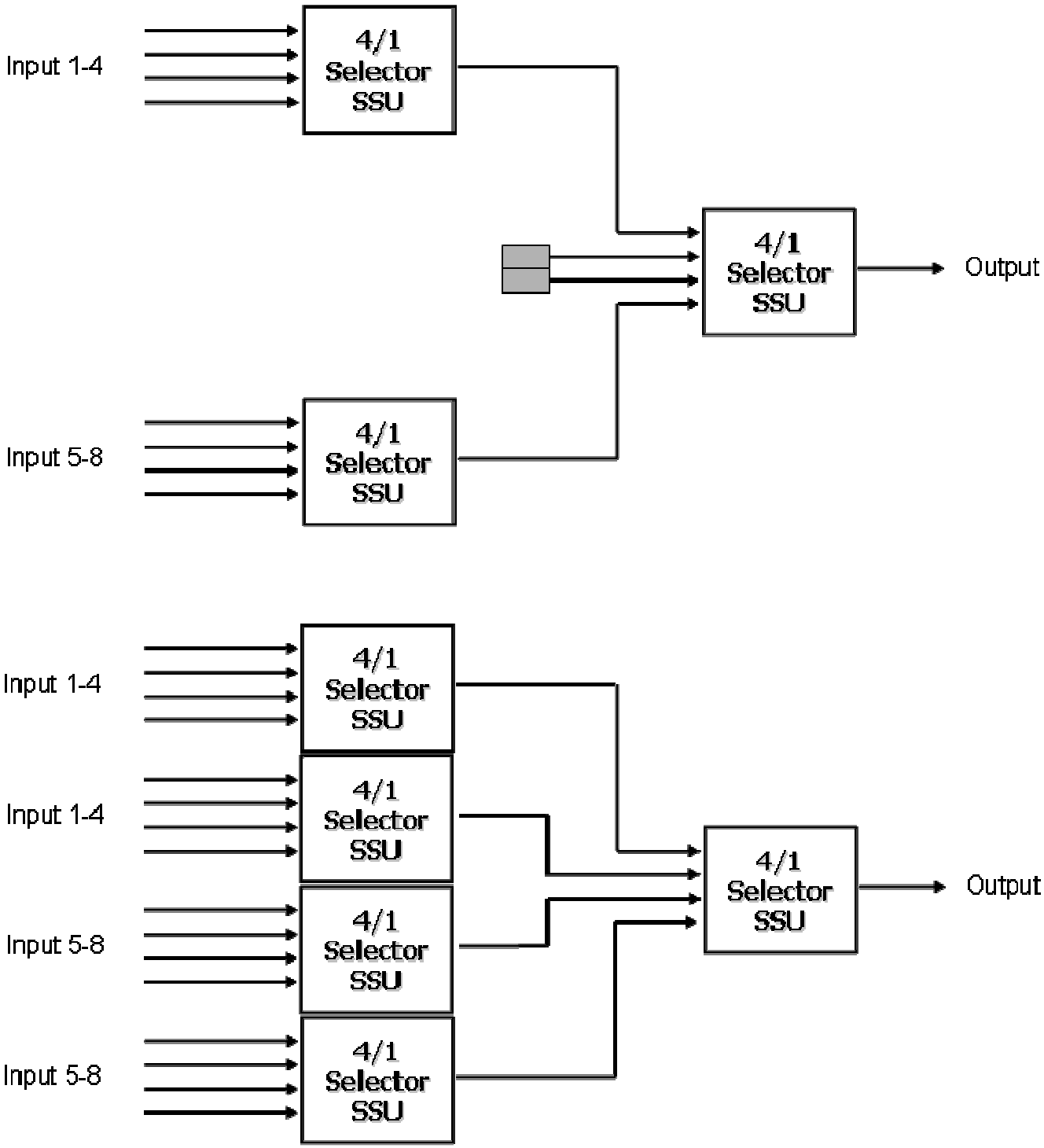
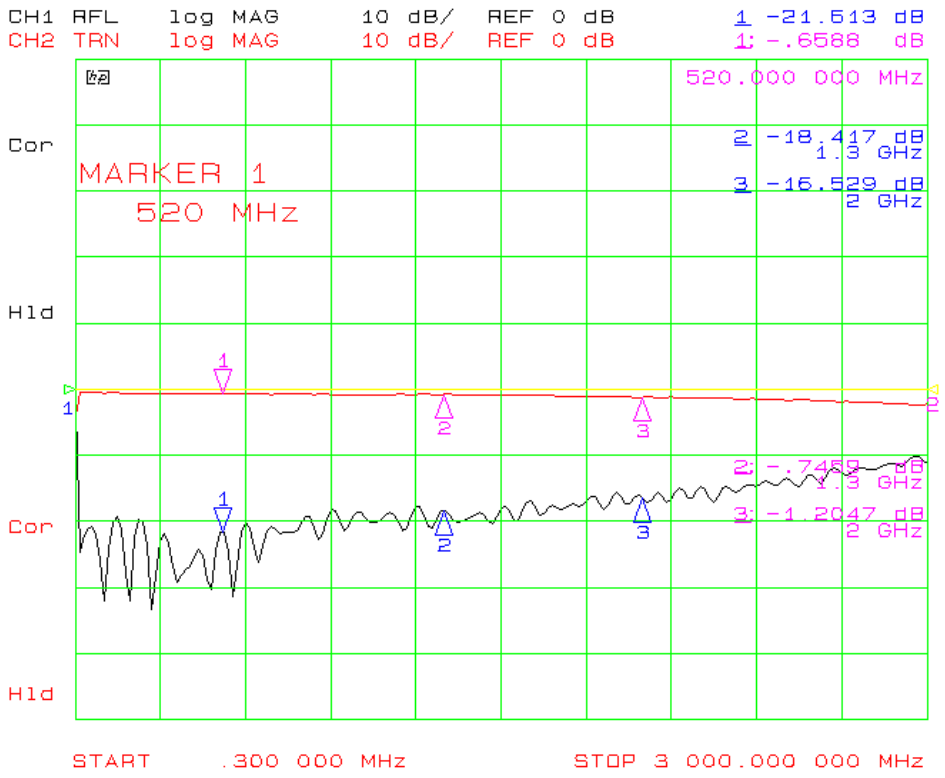
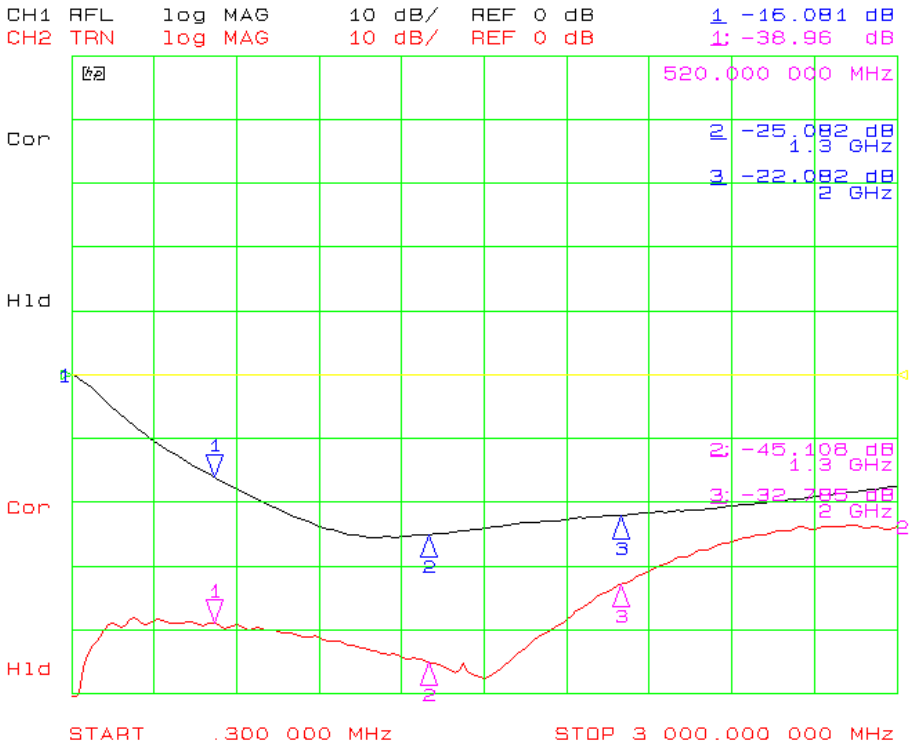
Functional block diagram



Typical performance



Insertion loss and return loss at input port (VHF/UHF version)



Isolation and return loss at out port (VHF/UHF version)

Specification summary

Signal routing data	
Frequency range	VHF/UHF: 20-3000MHz
Number of inputs	8 (SSU-3000-8) 16 (SSU-3000-16)
Number of outputs	1
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	0 dB +2dB/-6dB
Input power	15 dBm max.
Noise figure	6 dB typ.
Input protection	Limiter
Input connectors	VHF/UHF: SMA-F
Output connectors	VHF/UHF: SMA-F
General data	
Environmental requirements	MIL STD 810D
Electromagnetic compatibility	MIL STD 461C
Power supply	12V DC operation Reverse polarity protected
Power consumption	15 W max.
Packaging	-8: 1U 19” (H44mm, W440mm, L260mm) -16: 2U 19” (H88mm, W440mm, L260mm)
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