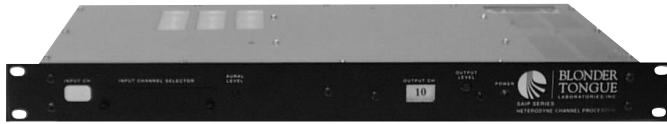


SAIP Series

Agile Input, Channelized Agile Output Heterodyne Processors



○ Features & Benefits

- EAS/ALT IF Ready Via Manual or Automatic Mode
- C-UL Listed, Three Year Warranty
- Front Panel Accessible Level Controls for Easy Set-Up and Adjustments
- Rack Mountable - 1 EIA (1.75") Rack Space
- Works in Conjunction with High Performance Channelized Output Filter Modules (OFM)
- Excellent Broadband Noise Performance of -95 dBc

The SAIP Series are professional quality, agile input and channelized agile output heterodyne processors. These units convert any channel in the 54 to 806 MHz frequency range to any channel in the 5 to 860 MHz frequency range. The SAIP Series is ideal for moving an off-air channel (VHF or UHF) or any single channel source to any unused channel (broadcast or CATV, including HRC and IRC assignments) in the system. For "on-channel" applications (CH2 IN, CH2 OUT), we recommend the "CAP-ON" processors.

Agile input and channelized agile output channel selection permits on-the-fly channel changes and reduces the need for large inventories of channelized products. A low cost, removable single channel output filter module is used to provide channelized configuration of the SAIP Series. Customer requests for individual channels can be easily accomplished by combining the frequency agile mainframe with the desired removable output filter module.

Output Filter Modules (OFM)

Output Filter Modules are factory tuned channelized units that are used with the CAM, CAP, MAVM & SAIP product lines. They are available with +40 dBmV or +60 dBmV output levels and can be order for any channel in the CATV (2-135), UHF (14-69) or Sub-Band (T7-T11) channel ranges.

SAIP Series

Agile Input, Channelized Agile Output Heterodyne Processors

○ Specifications

RF

Input Frequency Range:
54-88 MHz
108-806 MHz

Output Frequency Range: 5-860 MHz

Channels: VHF, CATV (STD,HRC,IRC), UHF

Tuning Increment
Input Channels: 250 kHz
Output Channels: 12.5 kHz

FCC Offset: 0, +12.5, or +25 kHz

Output Level - Min
SAIP-40-860: +42 dBmV
SAIP-60-860: +60 dBmV

Output Level Adjust: 15 dB

Noise Figure
VHF: 8 dB
UHF: 10 dB

Aural/Visual Carrier Ratio: 0 to -10 dB

Visual Carrier Frequency Tolerance
Standard Channels: ± 5 kHz
FCC Aeronautical Channels: ± 3 kHz

Channel Selectivity:
Adjacent Aural and Below: -65 dB
Adjacent Picture and Above: -65 dB

Spurious Outputs: -60 dB

Intermod Distortion: -64 dB

Broadband Noise: -95 dBc

Image Rejection: 60 dB

Input/Output Impedance: 75 ohm

Input Return Loss: 12 dB

Output Return Loss: 14 dB

IF

Aural Frequency: 41.25 MHz

Visual Frequency: 45.75 MHz

Composite IF Loop Output
Aural Carrier Level: +13 dBmV
Visual Carrier Level: +28 dBmV

Output/Input Impedance: 75 ohm

Output Return Loss: 12 dB

Input Return Loss: 10 dB

General

Power Requirements
Voltage: 117, $\pm 10\%$ VAC
Frequency: 60 Hz
Power - SAIP-40-860: 15 W
Power - SAIP-60-860: 18 W

Fuse: 3/8 A

Temperature Range: 0 to +50 °C

Mechanical

Dimensions (WxHxD):
19.0 x 1.75 x 9.5 in.
483 x 44 x 241 mm

Weight: 6 lbs, 2.73 kg

Connectors (Rear Panel)

RF Input: "F" Type, Female
IF Output: "F" Type, Female
IF Input: "F" Type, Female
RF Output: "F" Type, Female

Controls (Front Panel)

Frequency Selection
Input: DIP Switches
Output: DIP Switches

Aural Carrier Level: Control
RF Output Level: Control

Indicators (Front Panel)

Power ON: LED, Green

Refer to product instruction manual for additional specification measurements and notes.

○ Ordering Information

Model

Model	Description
SAIP-60-860	Agile Input, Channelized Agile Output Processor +60 dBmV, 54-300 MHz
SAIP-60-860	Agile Input, Channelized Agile Output Processor +60 dBmV, 300-756 MHz
SAIP-60-860	Agile Input, Channelized Agile UHF Output Processor +60 dBmV, 756-860 MHz
SAIP-40-860	Agile Input, Channelized Agile Output Processor +40 dBmV, 54-300 MHz
SAIP-40-860	Agile Input, Channelized Agile Output Processor +40 dBmV, 756-860MHz
SAIP 40/60-860 MF	Agile Input, Channelized Agile Output Processor 860 MHz, Mainframe
SAIP-40-860	Agile Input, Channelized Agile Output Processor +40 dBmV, 300-756 MHz
SAIP-60-860	Agile Input, Channelized Agile UHF Output Processor +60 dBmV, 758-806 MHz UHF
SAIP-60-860	Agile Input, Channelized Agile UHF Output Processor +60 dBmV, 470-758 MHz UHF
SAIP-40-860	Agile Input, Channelized Agile UHF Output Processor +40 dBmV, 470-758 MHz UHF
SAIP-40-860	Agile Input, Channelized Agile UHF Output Processor +40 dBmV, 758-806 MHz UHF

Output Filter Modules (OFM)

Model

Model	Description
OFM-40-860	Output Filter Module +40 dBmV, 758-806 MHz (UHF)
OFM-40-860	Output Filter Module +40 dBmV, 470-758 MHz (UHF)
OFM-40-860	Output Filter Module +40 dBmV, 7-37 MHz (SUB)
OFM-40-860	Output Filter Module +40 dBmV, 756-860 MHz
OFM-40-860	Output Filter Module +40 dBmV, 54-300 MHz
OFM-40-860	Output Filter Module +40 dBmV, 300-756 MHz
OFM-60-860	Output Filter Module +60 dBmV, 470-758 MHz (UHF)
OFM-60-860	Output Filter Module +60 dBmV, 758-806 MHz (UHF)
OFM-60-860	Output Filter Module +60 dBmV, 7-37 MHz (SUB)
OFM-60-860	Output Filter Module +60 dBmV, 756-860 MHz
OFM-60-860	Output Filter Module +60 dBmV, 300-756 MHz
OFM-60-860	Output Filter Module +60 dBmV, 54-300 MHz