Headend & Electronics







806MHz Sub-Band Extended Agile Signal Processor



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- 132-Channel Input Range 5.75-806 MHz (CATV T7-T13 and 2-125, TV 2-69)
- 82 Channel Output Range 54-550MHz (CATV 2-78)
- Back-panel switch enables sub-band operation for reprocessing remote TV origination making it even more flexible for institutional cable systems

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ITV SERIES

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- Broadcast-quality specifications for unparalleled picture quality
- High 57dBmV output for optimum carrier-tonoise performance
- In-band carrier-to-noise ratio >60dB ensures superior picture quality
- Microprocessor control enables digital pushbutton input and output channel selection for ease of installation, configuration, and servicing
- Non-volatile memory for input and output channel recall in the event of power failure
- Front panel controls and test point enable easy setup and monitoring
- Double heterodyne conversion provides over 60dB spurious output and channel rejection for interference-free adjacent channel operation
- Auto-insertion of standby carrier with audiomute generator in the event of input signal loss preserves system integrity
- Sync tip detection AGC circuitry provides wide dynamic range for robust system regulation
- BTSC stereo compatibility for pass-through of stereo signals
- Composite audio-video IF loop provides compatibility with encoders, ghost cancellers, and video override applications
- SAW filtered for superior adjacent channel performance enables drop-in channel expansion
- IRC and HRC input and output offset available for frequency settings in systems using offset channels

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The Pico Macom PFAP550MS is a frequency agile, microprocessor-controlled, professional re-broadcast grade, double-heterodyne signal processor that converts one channel to another without the need to demodulate and remodulate the signal. Front panel push-button controls enable input and output channel selection. Sub-band capabilities allow the reprocessing of remote channel origination for distribution over the entire cable system making it the ideal signal processor in government and institutional environments. A rear-panel switch enables sub-band channel operation. The unit uses state-of-the-art low noise PLL, SAW filter, and AGC techniques to provide superior picture quality and reliability, thereby dramatically improving customer satisfaction. The **PFAP550MS**'s unique sync tip detection AGC design delivers consistently high quality picture even at extremely low input levels. Its high-selectivity SAW filtering enables the unit to process any single cable channel, even in the most crowded systems. In the event of power failure, the microprocessor's non-volatile memory preserves input and output channel identification guaranteeing proper reset when power is restored. The PFAP550MS's high frequency and extremely high accuracy phase-locked-loop oscillators enable the unit to meet the frequency offset and stability requirements of FCC Docket 21006. **Pico Macom** backs up this product with its industry leading 5-year limited warranty.





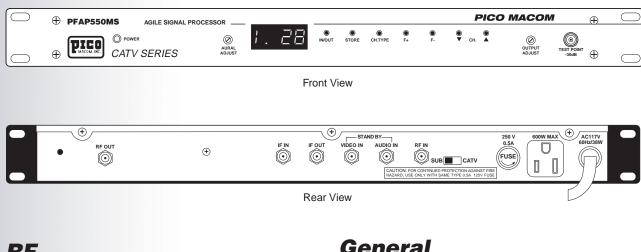
Toll Free: 800-423-2594 www.multicominc.com multicom@multicominc.com

Product Specifications



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806MHz Sub-Band Extended Agile Signal Processor



RF

Input Frequency: Input Channels: CATV UHF **Output Frequency: Output Channels:** CATV **Maximum Output:** Input Level: Min. Max. **Output Adjust Range:** Gain: AGC Range: AGC Type: AGC Stability: **Noise Figure: Differential Gain: Differential Phase:** Visual C/N: Out-of-band C/N: **Frequency Response:** Selectivity: Spurious Outputs: In-band **Out-band** Aural Carrier Adjust Range: **Return Loss: Input/Output: IF Output: Controls:**

5.75-806 MHz T7 to 125 (HRC, IRC) 14-69 54-550 MHz 2 to 78 (HRC, IRC) 57 dBmV min. 0 dBmV (For 55 dB min C/N) 25 dBmV 48-60 dBmV 70 dB 0 dBmV to +25 dBmV input Keyed sync tip ±0.5 dB 8 dB VHF, 10 dB UHF <5% (10 to 90% APL) <5° (10 to 90% APL) 55 dB @ 0 dB input -65 dB ±1.7 dB -60 dB (Adjacent Channel) >-60 dB >-60 dB 12 dB 12 dB typical 35 dBmV (45.75 MHz) Aural Carrier and Output Level

General

Power Input: Operating Temperature: Dimensions: Weight: Test Point:

105 to 130 VAC, 60 Hz, 15 W -10° C to 50° C 19"(L) x 9"(D) x 13/4"(H) 8.2 lbs. -30 dB

NOTE: In stand-by mode, this unit is an agile 550 MHz modulator

Ordering Information

PFAP550MS

Order From:



Toll Free: 800-423-2594 www.multicominc.com multicom@multicominc.com