



PDI-60APD HDTV PROCESSOR

Digital High Definition SAW Filtered Television Signal Processor

PDI Communications' PDI-60APD is a professional quality, user friendly, High Definition TV signal processor designed primarily to feed 8VSB digital broadcast signals through a cable system to television receivers or interface converters able to decode the signal. Rock solid PLL controlled tuning by advanced microprocessor insures precise UHF, VHF or CATV channel access. Careful design of the input achieves a wide dynamic range and very low noise figure. Input tuning covers the range of 54 to 860 MHz. The agile output ranges from 54 to 860MHz and is controlled by another PLL circuit with 12.5 or 25 kHz offsets. Both the input and output channels have non-volatile memories that restore the channels automatically in the event of a power failure. SAW filtering guarantees broadcast quality pictures. An external IF loop is available on the rear of the unit enabling the processor to serve as a digital up converter in high speed internet CMTS and other digital systems.

Features

- +55dBmV RF output with very low spurious response
- Microprocessor controlled PLL tuning for precise frequency control
- Non-volatile memories restore channels after a power failure
- Externally selectable FCC offsets for ease of operation
- User friendly channel selection by push-button
- Professional grade SAW filters allow true adjacent channel operation
- Loop-through for external IF insertion
- 134 channel up converter for flexibility
- Auxiliary AC convenience outlet
- 2 year "no-hassle" warranty

Specifications

IF Section:

Central Frequency: 44.0 MHz
 IF Output Level: +20dBmV +2dB
 IF IN/OUT Impedance: 75 ohms (14dB return loss min.)

General Section:

Power Requirements: 117 Vac +10%, 60Hz, 28 W
 Temperature Range: 0 to +50 degrees C
 Dimensions: 19" x 1.75" x 12.25"
 Rear Panel Connections: All "F" Female
 AC Convenience 3 Cond.
 Polarized w/Ground
 Front Panel Controls: RF Output Level Adjust
 Output Offset Adjust
 Input Channel Set
 Output Channel Set
 Test Point -30dBc

Front Panel Indicators: Input Channel, Red Digital Display
 Output Channel, Red Digital Display
 Power On, Red LED

Input Section:

Input Frequency Range: 54 to 860 MHz
 Input Channels: UHF, VHF, and CATV
 Input Level Range: -10 to +20dBmV,
 (0 to +10dBmV recommended)
 Noise Figure: 7.5dB @ VHF, 10dB @ UHF
 Impedance: 75 ohms

Output Section:

Output Frequency: 54 to 860 MHz
 Frequency Stability: +5 kHz max.
 Output Offsets: 0, 12.5 and 25kHz
 Spurious Output: -60dBc
 Group Delay Response: Meets FCC requirement
 Frequency Response: ±1dB max. in channel