

Digital Channel Filter

All-in-one Terrestrial TV Signal Receiving and Processing Device



Introduction

Zinwell's Digital Channel Filter is an all-in-one programmable terrestrial TV signal booster, filter, combiner, channel converter, equalizer, and amplifier. It is suitable for collective antenna application where terrestrial TV signals can be selected, processed, filtered, combined, equalized, and amplified at once.

With embedded LCD and key pad, it is very flexibility in the field for instant adjustment of channels and output power level to successfully distribute the signals within a multi-dwelling building.

Highlights

- » 32 capture bands to select and convert terrestrial TV channels
- » Integrated Pre-Amplifier and Automatic Gain Control (AGC) to capture and compensate incoming signal level difference
- » 5 inputs to select the best signal from each VHF/UHF/FM optimized antennas
- » Adjustable output level up to 113 dB μ V to extend the signal coverage
- » Intuitive key pad programming with LCD display for output signal level adjustment and channel conversion

Input Port		
Input Port Number (VHF & UHF / FM)		4 / 1
Input Port Connectors		F-Type Female
Input Frequency (VHF & UHF / FM)	MHz	174 ~ 862 / 88 ~ 108
Selectable Filter for each VHF / UHF Input	MHz	1) VHF: 174 to 240
		2) UHF: 470 to 862
		3) UHF: 470 to 694 (700~850 MHz Rejection)
		4) UHF: 470 to 774 (780~910 MHz Rejection)
Input Power Level (VHF & UHF / FM)	dB μ V	108 max. / 78 max.
Input Return Loss	dB	10 min.
Channel Capture/Convert Band		32 max. (Programmable)
Channel Capture Band Bandwidth	MHz	6 ~ 9
Output Port		
Output Port Number		2 (1 Output Port, 1 Test Port)
Output Port Connectors		F-Type Female
Output Frequency (VHF & UHF / FM)	MHz	174 ~ 862 / 88 ~ 108
Output Power Level	dB μ V	113 max. (Programmable)
FM Gain Level	dB	0 or 20
Output Return Loss	dB	10 min.
Output MER	dB	35 (with input MER \geq 38 dB)
Test Port Loss	dB	30
System		
AC Input Voltage	V	100 - 240
Power consumption	W	10
Programming Port and Interface		Intuitive Key Pad with LCD Display
Operating Temperature	°C	-10 to 50

Specification are subject to change without notice