

TVCB

TV Channel Blocker



The TV Channel Blocker (TVCB) unit can be mounted at the tap output or at the consumer's residence. The unit is fully addressable, therefore service changes and/or disconnects are performed remotely from the billing system and control computer. The hardware cost is approximately the cost of one truck roll. Unlike traps, the TVCB provides individual channel control without adjacent channel degradation.

For a single family home, the TVCB has all that is needed to block up to 80 channels simultaneously in bandwidths within 54 to 600 MHz. It may be house or network powered and individually controls the forward and return paths at the tap.

The TVCB has a forward path bandwidth of 54-860 MHz and 5-40 MHz return path. It has four signal conditioning accessories that may plug into the unit: Equalizer (VMI-CEQxV), Forward and Return Path Attenuators (VMI-AT), and Forward Path Trim Networks (VMI-TN).

The TVCB may also be used in an Interdiction application similar to VMI and SMI, or in a rural environment.

○ Features & Benefits

- Optimum Solution for Blocking Unwanted Channels in Households without Set-Top Boxes
- Controlled by the iCentral Management System- Channel Map Changes are a Snap
- Addressable Control of On/Off and up to 80 Individually Blocked Channels
- Unlike Traps, Provides Individual Channel Control without Adjacent Channel Degradation
- May be used in a Interdiction Application

○ Specifications

Subscriber Port

Bandwidth: 54 to 860 MHz
Nominal Gain: 1.5 dB
Flatness: ± 1.5 dB
Return Loss: 16 dB

Output Level

54 MHz: 10 dBmV
600 MHz: 16 dBmV
750 MHz: 17 dBmV
860 MHz: 18 dBmV

Distortions (@ 77 Channel Loading):

CTB: -60 dBc
CSO: -60 dBc
XMOD: -55 dBc
Spurious: -60 dBc
C/N: 59 dB
AGC: ± 3 dB

Return Path

Bandwidth: 5 to 40 MHz
Loss: 4 dB
Flatness: 2 dBpv
Return Loss: 16 dB

Jamming Oscillators

8 Oscillators: 54 - 600 MHz

Voltage Controlled Oscillator Frequency Range:

VCO 1: 114-177 (ch. 14-22, 7, 99) MHz
VCO 2: 179-249 (ch. 8-13, 23-28) MHz
VCO 3: 252-321 (ch. 29-40) MHz
VCO 4: 312-381 (ch. 39-50) MHz
VCO 5: 372-453 (ch. 49-62) MHz
VCO 6: 444-525 (ch. 61-74) MHz
VCO 7: 516-597 (ch. 73-86) MHz
VCO 8: 54-85 (ch. 2-6) MHz

Data Carrier

Frequencies

9112: 104.75 MHz
9115: 112.7 MHz

Level (relative to video): -10, ± 5 dB

Guard Band: ± 300 kHz

FM Deviation: ± 60 kHz

Overall - Electrical

Hum Modulation: < -60 dBc

RF Leakage:

Complies with FCC Part 76, Sub part K

Power Requirements Voltage:
37-95 VAC

Frequency: 50/60 Hz

Current Consumption
90 VAC IN: 150 mA
60 VAC IN: 200 mA

Power Passing to Port (optional): 300 mA

Operating Temperature Range: -40° to $+60^{\circ}$ C

Relative Humidity: 5-100 %

Overall Mechanical

Housing - Dimensions

(L x H x W): 9.5 x 4.0 x 10.0 in.

Weight: 6 lbs

Mounting: Strand, Wall or Pedestal

RF IN, RF OUT and AC IN Connectors:
"F" type, female

Order From:



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

TVCB Accessories

TV Channel Blocker

○ TVCB Plug-Ins

The TVCB accepts many of the same plug-in circuitry as the VMIU, specifically the Equalizer, Attenuator, and Trim Network. Please refer to the Plug-In Tables in the VMI catalog section.

Equalizer - controls tilt of the subscriber output signal. Does not affect the feeder cable or reverse path.

Attenuator - works with the directional coupler to lower the signal reaching the subscriber output ports.

Trim Network - may be used instead of a forward path attenuator to compensate for non-linear system response and allow for forward path balancing.

○ Powering

TVCBs can be powered either by network power (through the auxiliary power port or via the RF input cable) as well as house powered. The Interdiction Power Supply and Power Distribution Network, may be used to power multiple TVCBs from a standard wall outlet. The TVCB Power Pack provides all you need for house powering a single unit.



INT-PS



INT-PD12

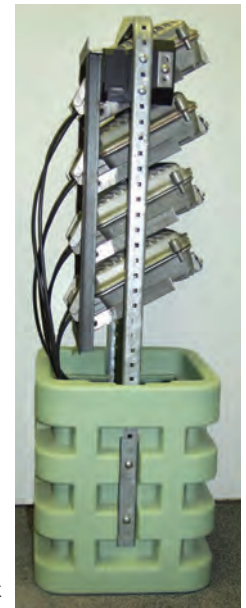


TVCB-PP

○ Mounting

TVCBs can be mounted several ways: on the strand, in a pedestal, and on a wall. Mounting brackets and enclosures supporting these various mounting schemes can be purchased directly from Blonder Tongue.

TVCB mounting brackets are available for mounting up to 4 or 10 TVCBs suitable for both indoor



Pedestal Mount

○ Ordering Information

Model	Stock No.	Description
TVCB-104	9112	TV Channel Blocker, 8 Oscillators 54-860 MHz Forward, 5-40 MHz Return, 104.75 MHz Data Carrier
TVCB-112	9115	TV Channel Blocker, 8 Oscillators 54-860 MHz Forward, 5-40 MHz Return, 112.7 MHz Data Carrier

Accessories

Model	Stock No.	Description
INT-PD12	9352B	Interdiction Power Distribution Network for Multiple Units 12 Ports
INT-PS	9354	MDU Interdiction Power Supply 117VAC/60Hz Input, 60VAC/60Hz Output, 7A
TVCB-BK4	9353 4	TVCB Pedestal Mounting Bracket for up to 4 Units
TVCB-BK10	9353 10	TVCB Wall or Pedestal Mounting Bracket for up to 10 Units
TVCB-PP	9126	TVCB Power Pack- Power Supply and Inserter (Diplexer). 120 VAC to 26 VAC, F-Connector Output
TVCB-WB	9135	TVCB Wall Bracket
VMI-TN-3X	9321 3X	Trim Network, 3dB of Network Correction, Vertical Profile, Attenuator Values:1, 2, 3, 4, & 5 dB
VMI-TN-6X	9321 6X	Trim Network, 6 dB of Network Correction, Vertical Profile, Attenuator Values:1, 2, 3, 4, & 5 dB
VMI-CEQ7V	9375	VMI Equalizer, Plug-In, Vertical Profile 750 MHz
VMI-CEQ8V	9377A	VMI Equalizer, Plug-In, Vertical Profile 860 MHz
VMI-IEQ7V	9376	VMI Inverse Equalizer, Plug-In, Vertical Profile 750 MHz
VMI-IEQ8V	9378A	VMI Inverse Equalizer, Plug-In, Vertical Profile 860 MHz
VMI-AT	9320	VMI Attenuator, Plug-In 1000 MHz

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