

# Video Distribution

## ENHANCED RF VIDEO DISTRIBUTION MODULES

Cable service providers are converting to digital systems. These new systems will squeeze hundreds of channels plus Internet service onto the coax line. Leviton's high-performance video modules can support these new systems while limiting noise and other artifacts. Modules can distribute standard inputs such as CATV and antennas, and modulated inputs such as VCR's, DVD's and security camera/CCTV on coaxial cable throughout the house. Signals can be precisely controlled through the modules' built-in amplifier/attenuator (-5 to +15db) to compensate for variations in incoming signal strength for the clearest possible reception\*.



Incorporates state-of-the-art bi-directional signal paths to support cable modem or cable box communications throughout a home or office. The outlet ports are isolated and do not require any termination caps. Choose from one or three-input models; both come with 8 outputs. One and three-input models come in both 1 and 2 GHz versions. Dimensions: 3.55"H.x 6.57"W.x 3.29"D. Connector: F-Type. Impedance: 75 Ohm. Power Input: 12 VDC, 500 mA (1x8 & 3x8); 12 VDC, 1000 mA (4x16).

\*Not for use in-line between DBS satellite dish (LNB) and DBS satellite TV receiver.

### 1x8 and 3x8 Enhanced RF Distribution Modules (1 GHz)

ITEM	GAIN (dB)			RETURN LOSS (dB)		ISOLATION (dB)			
	FORWARD		REVERSE	FOR.	REV. (ANY OUTPUT)	AUX-AUX	CABLE-AUX	OUT-OUT	
	54-1000 MHz	1.0-1.4 GHz	10-40 MHz						
<b>1x 8 RF Module</b>	+15 +/-2*	+9 +/- 5	0 +/-2	11 Typ.	12 Typ.	N/A	N/A	25	
<b>3 x 8 RF Module</b>	CATV	+15 +/-2*	+9 +/- 5	0 +/-2	11 Typ.	12 Typ.	18	30	25
	AUX 1	+12 +/-2*	+6 +/- 5	N/A	11 Typ.				
	AUX 2	+12 +/-2*	+6 +/- 5	N/A	11 Typ.				

\*Note: Tilt specification for all units is less than +/- 3 dB to 1 GHz

### 1x8 and 3x8 Enhanced RF Distribution Modules (2 GHz)

ITEM	GAIN (dB)			RETURN LOSS (dB)		ISOLATION (dB)		
	FORWARD		REVERSE	FOR.	REV. (ANY OUTPUT)	AUX-AUX	CABLE-AUX	OUT-OUT
	1.0-2.0 GHz		10-40 MHz					
<b>1x 8 RF Module</b>	+4 +/-6	0 +/-2	11 Typ.	12 Typ.	N/A	N/A	25	
<b>3 x 8 RF Module</b>	CATV	+4 +/-6	0 +/-2	11 Typ.	12 Typ.	18	30	25
	AUX 1	+1 +/-6	N/A	11 Typ.				
	AUX 2	+1 +/-6	N/A	11 Typ.				

\*Note: Tilt specification for all units is less than +/- 5 dB to 2 GHz

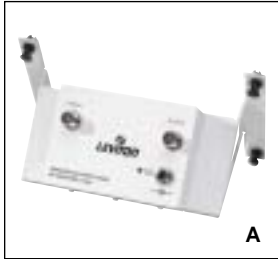
### Enhanced RF Distribution Modules

Cat No.	Description
47690-ESM	1x8 Enhanced RF Module, 1 GHz
47690-GSM	1x8 Enhanced RF Module, 2 GHz
47690-3BY	3x8 Enhanced RF Module, 1 GHz
47690-G3Y	3x8 Enhanced RF Module, 2 GHz
47690-4BY	4x16 Enhanced RF Module, 1 GHz
47690-G4Y	4x16 Enhanced RF Module, 2 GHz

# Video Distribution

## Enhanced Bi-Directional RF Amplifier

This unit offers extremely low noise for 1 CATV/Antenna input and 1 coaxial output to boost CATV (or other RF service) signal strength. It incorporates a variable attenuator (0 to +20dB for precise amplification for the clearest signal possible. Cable TV or other RF signals can be run through this Enhanced Bi-Directional RF Amplifier before splitting and distributing them throughout a home or office. Dimensions: 3.55"H.x 6.57"W.x 3.29"D. Connector Type: F Impedance: 75 Ohm. Power Input: 12 VDC, 200 mA.



### Enhanced Bi-Directional RF Amplifier-1 GHz

ITEM	GAIN (dB)		RETURN LOSS (dB)		ISOLATION (dB)		
	FORWARD	REVERSE	FOR.	REV. (ANY OUTPUT)	AUX-AUX	CABLE-AUX	OUT-OUT
	54 -1000MHz	10-40MHz					
<b>Enhanced RF Amp.</b>	19 +/-2*	0 +/-2	11 Typ.	12 Typ.	N/A	N/A	N/A

\*NOTE: Tilt specification for all units is less than +/- 3 dB to 1 GHz

### Enhanced Bi-Directional RF Amplifier-2 GHz

ITEM	GAIN (dB)		RETURN LOSS (dB)		ISOLATION (dB)		
	FORWARD	REVERSE	FOR.	REV. (ANY OUTPUT)	AUX-AUX	CABLE-AUX	OUT-OUT
	1.0-2.0 GHz	10-40MHz					
<b>Enhanced RF Amp.</b>	19 +/-2*	0 +/-2	11 Typ.	12 Typ.	N/A	N/A	N/A

\*NOTE: Tilt specification for all units is less than +/- 5 dB to 2 GHz

## FEATURES

- Variable attenuator enables precise amplification for the clearest signal possible.
- Run cable TV or other video signals through the Video Amplifier before splitting and distributing throughout the home or office.
- Boost signal strength by up to 20 dB.

## Enhanced Bi-Directional RF Amplifiers

Cat No.	Description
47690-BVA	A-Enhanced Bi-Directional Amplifier, 1 GHz
47690-GVA	Enhanced Bi-Directional Amplifier, 2 GHz

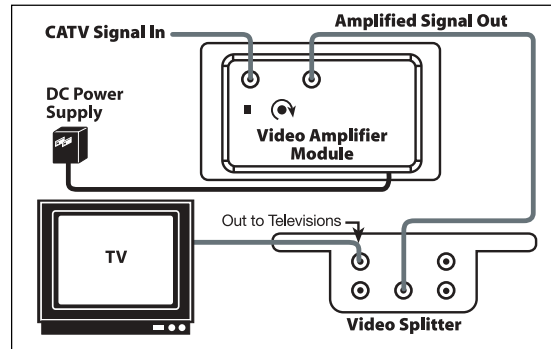


## Video Amplifier

Run cable TV and other video service signals, such as antenna or other modulated input through this Video Amplifier Module and boost video signal strength up to 25 dB. Features a variable attenuator for signal amplification level setting, and an FM trap to eliminate unwanted FM interference.

## FEATURES

- Run cable TV or other video signals through the Video Amplifier before splitting and distributing throughout the home or office.
- Boost signal strength by up to 25 dB.



## Video Amplifier

Specifications
<b>Dimensions:</b> .....6.58"H.x 3.67"W. x 4.4"D.
<b>Frequency Range MHz:</b> .....50-1000
<b>Gain Control Range dB:</b> .....10-25dB
<b>FM Trap dB:</b> .....25
<b>Impedance:</b> .....75 Ohm
<b>Connector Type:</b> .....F-type
<b>Power Source:</b> .....12 VDC 500 mA

## Video Amplifier

Cat. No.	Description
48210-VA	B-Video Amplifier Module

# Video Distribution

## PASSIVE COMPONENTS

### 1x4, 1x6, 1x8 Passive Video Splitters

Use 4-, 6- and 8-way Passive Video Splitters to split digital cable (2.05 GHz units), quality cable TV and off-air antenna signals to 4, 6, or 8 televisions throughout the home or office. They feature die-cast housing and printed circuit board construction. Use with the Video Amplifier for increased signal strength.



2 GHz Modules

### 1x4, 1x6, 1x8 Passive Video Splitters

Item	Cat No.	Dimension	Range	Insertion Loss (dB)	Return Loss (dB)	Isolation (dB)
1x4	47690-4C	6.58"H.x 2.14"W.x 1.4"D.	1 GHz	7.0 dB – 8.1 dB	7.7 dB – 8.1 dB	28.3 dB – 48.5 dB
	47690-4C2	6.58"H.x 2.14"W.x 1.4"D.	2 GHz	7.7 dB – 10.5 dB	9.5 dB – 21.0 dB	24.0 dB – 30.0 dB
1x6	47690-6C	6.58"H.x 3.0"W.x 1.4"D.	1 GHz	10.0 dB – 12.1 dB	6.5 dB – 23.5 dB	28.9 dB – 37.5 dB
	47690-6C2	6.58"H.x 3.0"W.x 1.4"D.	2 GHz	11.0 dB – 14.0 dB	11.5 dB – 23.5 dB	35.0 dB – 39.5 dB
1x8	47690-8C	6.58"H.x 3.0"W.x 1.4"D.	1 GHz	11.5 dB – 13.0 dB	6.2 dB – 20.1 dB	34.0 dB – 65.0 dB
	47690-8C2	6.58"H.x 3.0"W.x 1.4"D.	2 GHz	11.9 dB – 15.7 dB	9.9 dB – 30.0 dB	32.0 dB – 39.2 dB

### 1x4, 1x6, 1x8 Passive Video Splitters

Cat No.	Description
47690-4C	1x4 Passive Video Splitter Module (1 GHz)
47690-6C	1x6 Passive Video Splitter Module (1 GHz)
47690-8C	1x8 Passive Video Splitter Module (1 GHz)
47690-4C2	1x4 Passive Video Splitter Module (2.05 GHz)
47690-6C2	1x6 Passive Video Splitter Module (2.05 GHz)
47690-8C2	1x8 Passive Video Splitter Module (2.05 GHz)

### 3x4 Multi-Switch

The 3x4 Multi-Switch distributes satellite signals to up to 4 TV's. It combines signals from dual incoming LNB (low noise block) digital satellite systems with transmission from an off-air antenna for distribution on a single coaxial cable. The module incorporates a separate input to receive TV antenna signals which is best used in combination with a video amplifier.



### 3x4 Multi-Switch

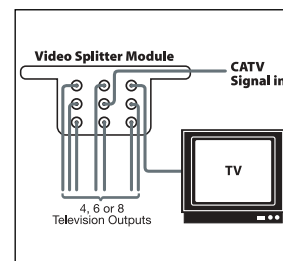
Specifications	
<b>Dimensions:</b>	..... 4.766"H.x 6.576"W.x 2.366"D.
<b>Frequency Range:</b>	.....TV Antenna 40-860 MHz .....Dual LNB 950-2150 MHz .....Receiver Output 40-2150 MHz
<b>Impedance:</b>	.....75 Ohm
<b>Connector Type:</b>	.....F-type
<b>LNB Selection Voltage:</b>	.....LNBA: 13/14V .....LNBB: 12/18V
<b>Insertion Loss:</b>	.....40-860 MHz: .....-7dB (typical)      950-2150 MHz: .....-3dB (typical)
<b>Return Loss:</b>	.....40-860 MHz: .....-10dB (typical)      950-2150 MHz: .....-10dB (typical)
<b>Isolation:</b>	.....Output to Opposite Input .....-22dB (typical)
<b>DC Power Passing:</b>	.....RX-LNB .....500Ma (max.)      RX-RX .....None .....LNB-RX .....None      ANT-RX .....None .....RX-ANT .....None

### 3x4 Multi-Switch

Cat No.	Description
47691-3MS	3x4 Multi-Switch

## FEATURES

- Splits video signals. Outputs for up to 4, 6 or 8 televisions.
- Provide digital cable, cable TV and other video services, via coaxial cable, to any room in the house.
- Die-cast housing and printed circuit board.
- Use with the Video Amplifier for increased signal strength.
- Units come with mounting bracket.
- Gold-flashed contacts on 2.05 GHz units provide lowest conductive resistance.



## FEATURES

- Distributed digital satellite signals to up to 4 TV's.
- Combines signals from digital satellite with off-air antenna onto single coax cable.

