

INSTRUCTION/INSTALLATION SHEET 1x4, 1x6 and 1x8 Enhanced Cable Video Modules

301 Fulling Mill Road, Suite G
 Middletown, PA 17057
 Phone (800) 321-2343 / Fax (717) 702-2546
 www.onqlegrand.com

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1. Introduction

The On-Q/Legrand 1x4, 1x6 and 1x8 Enhanced Cable Video Modules (P/N **VM1000**, **VM1001** and **VM1002** respectively) are video splitter/combiner modules specifically designed for today's two-way broadband cable networks. The video modules feature outstanding performance specifications as shown below which enable them to support present and future multimedia applications such as high speed cable Internet, digital cable, interactive pay-per-view, and HDTV. As shown in **Figure 1**, they may be used both as combiners to collect video inputs for amplification and also as part of a video distribution application.

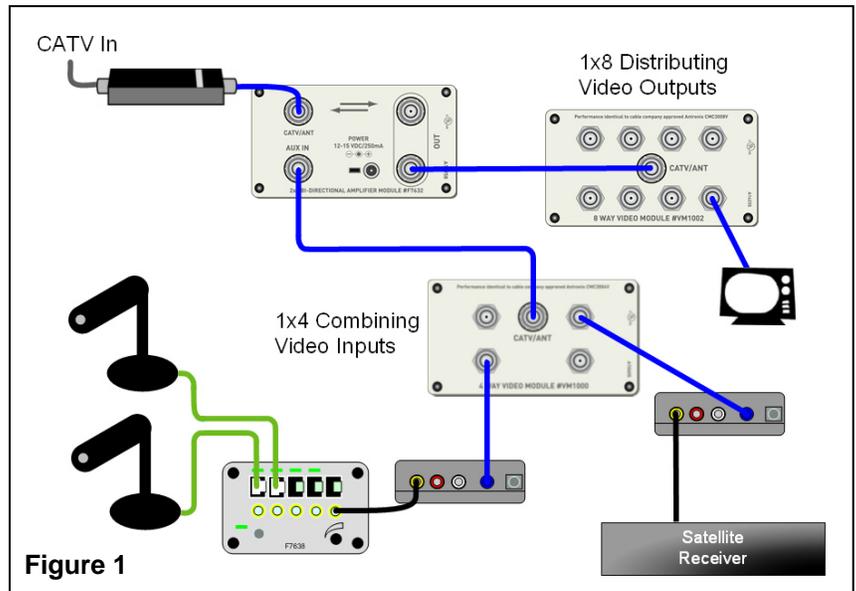


Figure 1

2. Description

The 1x4, 1x6 and 1x8 Enhanced Cable Video Modules feature a bandwidth from 5 - 1000 MHz (1 GHz) which allows the best possible performance for today's advanced cable television applications. The video modules can be used along with a video amplifier to build a robust video distribution system.

A. Features (all):

- 5 - 1000 MHz (1 GHz) - Bi-Directional Splitter.
- Auto-seizing F port connectors
- 6 kV ring wave surge protected for high surge resistance
- Digital cable and HDTV approved by most major cable operators
- Low intermodulation and 40 dB port-to-port return band isolation

B. Specifications (VM1000 / VM1001 / VM1002):

Frequency	Insertion Loss	Isolation	Input Return Loss	Output Return Loss
5-14 MHz	6.8/9.0/10.8dB	25/25/25dB	22/22/22dB	22/22/22dB
14-40 MHz	6.8/9.0/10.8dB	40/35/40dB	22/22/25dB	38/30/35dB
40-200 MHz	7.0/9.2/10.8dB	35/28/35dB	22/22/22dB	28/25/28dB
200-550 MHz	7.2/9.4/11.0dB	28/26/28dB	22/22/22dB	25/22/25dB
550-750 MHz	7.4/9.6/11.2dB	26/26/26dB	22/22/22dB	22/22/22dB
750-1000 MHz	7.8/10.0/12.0dB	24/24/24dB	22/22/22dB	22/22/22dB
Nominal Impedance (all):	75 Ohm			
F-Connector Type (all):	ANSI/SCTE Compliant Sealed Brass			
F-Connector Torque (all):	30 in. lbs. (max)			
Surge Protection (all):	6 kV Ring Wave Surge per IEEE C62.41 Category A3 Compliant			
Second Harmonic (all):	-45 dBmV after 6 kV ring wave surge with a +55 dBmV return input carrier			
Operating Temperature (all):	-40° C to 60° C			

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3. Installation

The 1x4, 1x6 and 1x8 Enhanced Cable Video Modules are provided with a bracket (P/N **AC1007**) that enables the modules to be installed in any On-Q style enclosure (see **Figure 2**). Use the plunger at each corner of the module to attach it to the bracket. Then slip the tabs on the bracket into the slots in the enclosure and rotate it back and use the push-pin on the opposite end of the bracket to secure it to the enclosure.

