



## Installation Guide, Super Home Node Model SHN-24

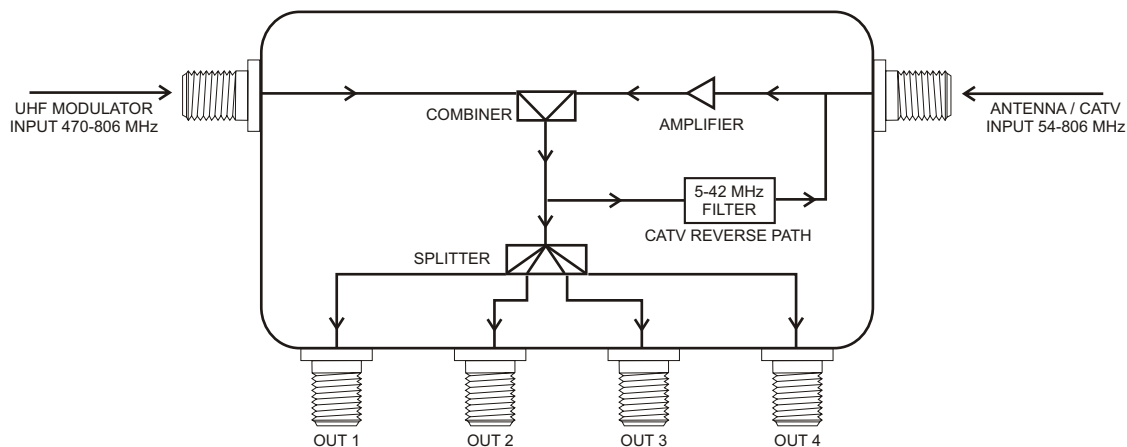
### APPLICATIONS

Model SHN-24 Super Home Node is designed to distribute all off-air signals plus one UHF modulated signal typically from a satellite TV receiver to four TV outlets within a building. The SHN-24 consists of an RF unit plus a wall-plug power unit and power injector. The RF unit therefore has two input connectors and four output connectors. A block diagram is shown in Fig 1.

The unit may also be used with CATV signals, a 5-42 MHz reverse path is provided from each output for use with two way cable systems.

Powering is by an 18VDC wall plug connected to a power injector (included). Power is normally supplied to the modulator port of the RF unit, however, either the modulator or any of the four output ports may be used. Do not attempt to power the RF unit at the Antenna Input.

Fig 1



### SPECIFICATIONS

#### RF Unit:

Antenna / CATV Input	
Frequency Range	54- 806 MHz
Gain	+2 dB
Noise Figure	9 dB
Maximum Input (2 channels, -46dBc x-mod)	42 dBmV per channel
Maximum Input (16 channels, -46dBc x-mod)	26 dBmV per channel
Maximum Input (100 channels CATV, -50dBc CTB)	15 dBmV per channel
Modulator Input	
Frequency Range	470 - 806 MHz
Maximum Input [ one channel ]	23 dBmV
Loss (to any output)	7 dB
CATV Reverse Path	
Frequency Range	5- 42 MHz
Loss (any output to CATV input)	10 dB
Connectors, Impedance	75 ohm, type F
Power requirements	
Voltage, current	15-22 VDC, at 130 mA
Powered Connector (one of)	modulator input, any out

#### Power Injector:

Frequency Range	5 - 806 MHz
RF connectors, impedance	75 ohm, type F
Through Loss	0.5 dB
RF Isolation	130 dB

#### Power Unit:

Input Voltage	120 VAC
Output Voltage	18 VDC (unregulated)
Maximum Current	150 mA

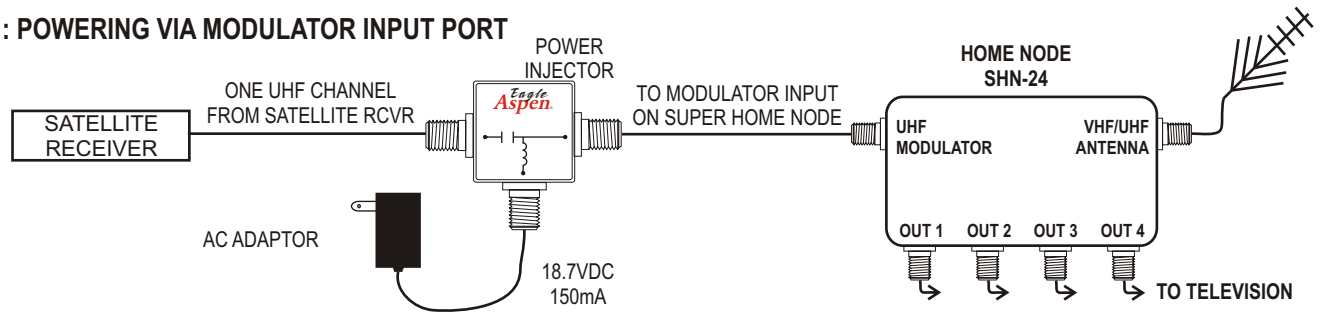
All specifications are typical and subject to normal manufacturing and service tolerances.

**FOR BEST PERFORMANCE, TERMINATE UNUSED PORTS WITH 75 OHM TERMINATIONS**

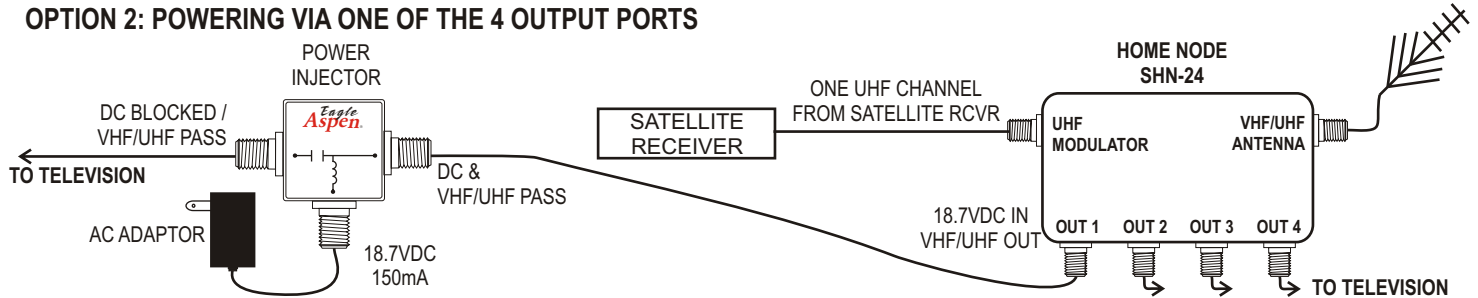
# OPERATING INSTRUCTIONS

## INSTALLATION INSTRUCTIONS

### OPTION 1: POWERING VIA MODULATOR INPUT PORT



### OPTION 2: POWERING VIA ONE OF THE 4 OUTPUT PORTS



**FOR BEST PERFORMANCE, TERMINATE UNUSED PORTS WITH 75 OHM TERMINATIONS**

This unit is designed for professional installation.  
DO NOT attempt to power the unit at the Antenna Input.

For use with all DISH Network dual-tuner/two-TV receivers with an Agile modulated output such as DISH 322 and DISH Player-DVR 522, 625 and 942.

### FCC COMPLIANCE INFORMATION STATEMENT

Product Name: Super Home Node  
Product Model Number: SHN-24

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**INSTALLATION REQUIREMENTS:** Systems designed using television interface devices have the following legal requirements:

- 1) The modulated channel signal strength may not exceed 15.56dBmV at any television.  
*Federal Regulation 47CFR15.115(b)(1)(i)*
- 2) If an antenna is used in the system, the modulated channel signal strength may not exceed -51dBmV at the antenna input port.  
*Federal Regulation 47CFR15.115(c)(4)*

### RESPONSIBLE PARTY

Responsible Party's Name (Importer): PRO BRAND INTERNATIONAL, INC.  
Address: 1900 WEST OAK CIRCLE, MARIETTA GA 30062  
Telephone: 770-423-7072

## WARRANTY

This Pro Brand International, Inc. (PBI) equipment is warranted to be free from defects in material and workmanship under normal use and service for ONE (1) YEAR. PBI shall repair or replace this unit, model SHN-24 if tested defective, at no charge, or at its option, refund the purchase price, if the equipment is returned to PBI not more than 1 YEAR after shipment. PBI is not responsible for shipping expenses for repair or replacement of equipment.

No warranty claim shall be honored on any unit that has been repaired or altered in any way so as to affect its stability or durability, or which has been subject to misuse, negligence or accident. This warranty does not cover equipment which has been impaired by severe weather conditions such as excessive wind, ice, storms, lightning or other natural occurrences over which PBI has no control, nor shall this Warranty apply to equipment which has been operated or installed other than in accordance with the instructions. Contact PBI immediately upon failure and confirm a RMA number from the customer service department.

**This warranty is expressly in lieu of all other agreements and warranties, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, PBI does not authorize any person to assume for it the obligations contained in this warranty and PBI neither assumes nor authorizes any representative or other person to assume for it any other liability in connection with the equipment delivered or provided.**

**In no event shall PBI be liable for any loss of profits, loss of use, interruption of business, or indirect, special or consequential damages of any kind.**

In no event shall PBI be liable for damages in an amount greater than the purchase price of the equipment.