

INSTRUCTION/INSTALLATION SHEET

ADVANCED 5X8 FOUR LNB MULTI-SWITCH

IS-0271 REV. 0

1. Introduction

The On-Q Home Advanced 5x8 Four LNB Multi-Switch, P/N 364701-01, is designed for DIRECTV™ satellite installations including DIRECTV™ PARA TODAS. The 4 LNB inputs support the second satellite required for high definition satellite signals. The Advanced 5x8 Multi-switch is designed to be mounted in any On-Q Home Enclosure.

2. Description

The On-Q Home Advanced 5x8 Multi-switch accepts up to 4 LNB inputs and one Off-Air TV Antenna input and provides outputs for up to 8 satellite receivers. Any input can be routed to any output using 13-14V Vertical or 17-18V Horizontal polarities set by the receivers and 22 kHz tone or no tone to select the satellite feeds. The non-amplified antenna (or cable) input facilitates combining of terrestrial and satellite signals over a single RG6 Quad Shield coaxial cable run. Unique Lacing Bars simplify wire management.

NOTE: When utilizing Dual LNB DIRECTV™ dish, connect to 18V/0 KHZ and 13V/0 KHZ inputs.



3. Installation

Installation of the On-Q Home Advanced 5x8 Multi-switch is best accomplished at multiple times during new construction, at “Rough-in” before sheetrock is installed, and at “Trim-out” after the sheetrock is installed and painted.

A. “Rough-in” steps:

1. One RG6QS cable should be run to a single gang box or mud ring in the wall from each location in the rooms where satellite receivers will be located, to the structured wiring enclosure location (leave extra cable at both ends).

NOTE: Some set top boxes have dual tuners for use with Digital Video Recorders (DVRs). One RG6QS cable is required for each tuner at a location.

2. Four RG6QS cables should be run from the satellite dish location to the structured wiring enclosure location (leave extra cable at both ends).
3. One RG6QS cable should be run to the terrestrial antenna location (leave extra cable at both ends).

B. Mounting the Multi-switch in the enclosure:

1. Position multi-switch in the enclosure, planning for wire management, access to power, and location of additional modules.

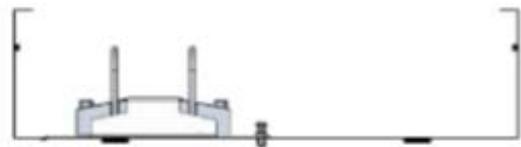
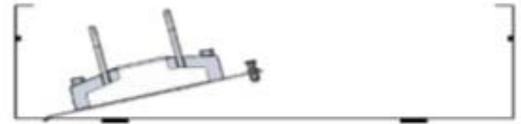
NOTE: multi-switch can be mounted vertically in the Value Line and Premium Enclosures but can be mounted vertically or horizontally in the Custom Enclosures.

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2. Align tabs on the assembly with slots on the back of the enclosure.
3. Insert tabs by angling assembly away from the back of the enclosure and sliding forward.
4. Rotate the assembly and insert fasteners on assembly into the corresponding holes on back of enclosure. (Plungers must be in the pulled out position for fastener to engage hole.)
5. Push plunger in to lock module into place. Pull on assembly to assure assembly is properly locked in place.



C. “Trim-out” steps:

1. At the locations in the rooms where the satellite receivers will be located, pull the RG6QS cable out of the single gang box, Mud Ring or Home Entertainment Connection Center Mud Ring. Trim excess cable leaving enough cable to terminate and connect to wall plate. Prepare and terminate the RG6QS cable with either an “F” plug or an AnyPort Express High performance “F” Insert, P/N 364572-xx. Use proper stripping and crimping tools to assure reliable terminations
2. At the structured wiring enclosure, terminate the other ends of the RG6QS cables from the locations in the rooms where the satellite receivers will be located with “F” connectors and connect them to the outputs on the multi-switch (RX1 – RX8). The RG6QS cables can be wire-tied to the Lacing Bars as shown to the right.
3. At the structured wiring enclosure, terminate the ends of the RG6QS cables from the satellite dish location with “F” connectors and connect them to the inputs on the multi-switch (18V/22KHZ, 18V/0KHZ, 13V/22KHZ, 13V/0KHZ). Connect LNB/A to the 0 kHz inputs and LNB/B to the 22 kHz inputs, or vice-versa. The RG6QS cables can be wire-tied to the Lacing Bars as shown to the right.
4. At the structured wiring enclosure, terminate the end of the RG6QS cable from the terrestrial antenna location with an “F” connector and connect it to the Ant. In input on the multi-switch (if applicable).
5. At the terrestrial antenna location, terminate the other end of the cable from the multi-switch with an “F” connector and connect it to the antenna (if applicable). It is recommended to use outdoor approved “F” connectors that incorporate rubber “O” rings for a weather proof seal, such as the OnQ Sealed Conical Coax F Plug, P/N 364246-02.



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6. At the satellite dish location, terminate the other ends of the RG6QS cables from the multi-switch with “F” connectors and connect them to the LNBs. It is recommended to use outdoor approved “F” connectors that incorporate rubber “O” rings for a weather proof seal, such as the OnQ Sealed Conical Coax F Plug, P/N 364246-02.
7. An RG6QS cable is required to supply power to the multi-switch. Attach an “F” connector to one end of the RG6QS cable and connect it to the 24VDC fitting on the multi-switch. Attach an “F” connector to the other end of the RG6QS cable and connect it to the supplied transformer. Plug the transformer into a standard 110 VAC outlet.

4. Tips

- A. In the structured wiring enclosure, terminate all homerun RG6QS cables on a 12 Port Video Interface Module, P/N 364596-01, and use a Mini Coax cable, P/N 364597-xx, to make connections on the multi-switch. The Mini-coax cable is smaller in diameter, more flexible and has a tighter bend radius, making it easier to use for connections inside the enclosure.
- B. Use a Diplex Filter Assembly, P/N 364218-01 (shown at right) at each receiver location if other video signals (e.g. cable TV, local antenna, camera, modulated DVD, etc) are connected to the Ant. In input on the multi-switch.
- C. Always use proper stripping and crimping tools to assure reliable terminations.
- D. Securely connect the “F” Plugs to the AnyPort High Performance “F” Jacks.
- E. Use On-Q Home Sealed Conical F Plug connectors, P/N 364246-02, for any outdoor “F” connections.



NOTE: This application requires using RG-6 quad shielded solid copper cable in lieu of copper clad steel, in that it involves distributing DC voltages. Solid copper offers less DC resistance than copper clad steel and thus less of a voltage drop. Use of copper clad steel could result in voltage drop significant enough to interfere with a DC voltage dependant device’s operation. As in any RF or RF/DC application, try to avoid excessively long runs.