INSTRUCTION/INSTALLATION SHEET
1x12 Telecom Module w/WAN's

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IS-0172 REV. B

1. Introduction

The On-Q/Legrand 1x12 Telecom Module w/WANs shown in ***Figure 1*** (P/N 363484-02) is a combination of the On-Q 1x6 Telecom Module (P/N 1267062-01)and 6-Port Telecom Expansion w/WANs Module (P/N 364542-01). These modules provide a structured method for distributing telephone service and wide area network data service throughout a residence. The "BRIDGE OUT" connector can be used to cascade additional Telecom Modules if desired.

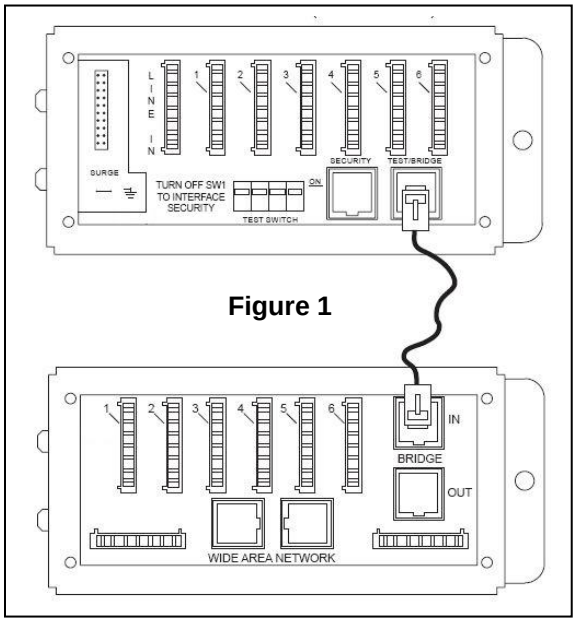

Figure 1

2. Description

The 1x6 Telecom Module has a 110 style punch down connector for connecting up to four incoming lines and a two-row 20-post connector and spade lug for connecting the optional On-Q Surge Protector (P/N 363487-01). There is also an RJ-45 test jack for local handset attachment and another RJ-45 jack for the RJ-31X SECURITY interface. Six 110 style punch down strips are provided for connecting oulets to the system. The Module also features a 4-position switch to allow for separation of the incoming lines from the outlets for testing purposes. Switch #1 is used to activate security options.

The Telecom Expansion Module w/WANs has two RJ-45 jacks for bridging connections and a "Wide Area Network" area consisting of two RJ-45 jacks and two 110 style punch down strips. There are also six 110 style punch down strips for connection to room outlets.

Each of these Modules occupy three vertical inches and span half the width of an On-Q enclosure.

3. Installation

A. Mounting in On-Q Enclosure (see ***Figure 2***):
   1) Align tabs on the module with slots in the enclosure.
   2) Insert tabs by angling module away from the back of the enclosure.
   3) Rotate the module and insert fasteners on module into corresponding holes in the enclosure. (Plunger must be in a pulled position for fastener to engage hole).
   4) Push plunger in to lock module in place. Pull on module to ensure it is locked properly in place.

B. Incoming Service Cable Connection (see ***Figure 3***):
   1) Route incoming service cable to "Line In" 110 style punch down strip on 1x6 Telecom Module. Allow slack for bundling and trim cable about two inches past 110 strip.
   2) Strip off approximately 4 inches of the outer jack and position the untwisted pairs over the appropriate color coded slots on the 110 style punch down strip.

   NOTE: Do not untwist pairs. White wires may not have color trace stripe. Keep white wire paired with appropriate colored wire.
   3) Punch down and trim the wires using a punch down tool and remove any excess wire.
   4) Tug lightly on the cable to insure wire is securely fastened.

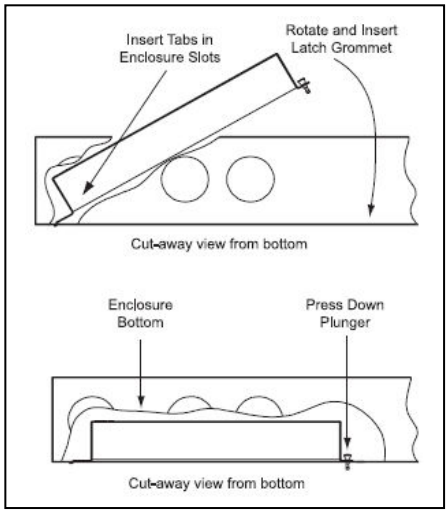

Figure 2

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C. Bridging Modules:
   1) Connect one end of the supplied Cat 5e jumper cable to the RJ-45 jack labeled "Test/Bridge" on the 1x6 Telecom Module and connect the other end to the RJ-45 jack labeled "Bridge In" on the Telecom Expansion Module.
   2) To install additional Telecom Expansion Modules, connect one end of a Cat 5e jumper cable to the RJ-45 jack labeled "Bridge Out" on the first Telecom Expansion Module and connect the other end to the RJ-45 jack labeled "Bridge In" on the second Telecom Expansion Module.

D. Outlet Telecom Cable Termination:
   1) Route outlet telecom cables to appropriate numbered 110 punch down strips on module. Allow slack for bundling and trim cables 2 inches beyond punch down strip.
   2) Strip off approximately 4 inches of the outer jacket and position the pairs over the color coded slots on the 110 strip (see ***Figure 3***).

   NOTE: Do not untwist pairs. White wires may not have color trace stripe. Keep white wire paired with appropriate colored wire.
   3) Punch down and trim wires using a punch down tool and remove any excess wire.
   4) Tug lightly on the cable to insure wire is securely fastened.
   5) Record room names/numbers and connection numbers on wire layout label inside enclosure.

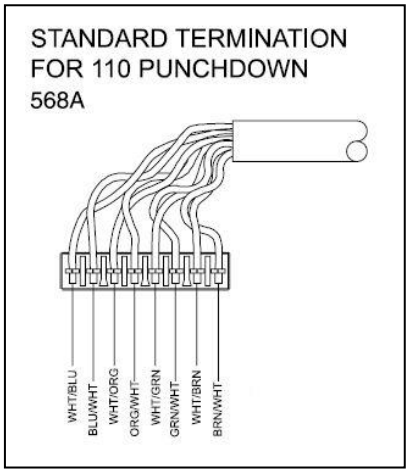

Figure 3

E. Wide Area Network Data Service Installation:
   1) Route incoming data service cable to Wide Area Network "IN" 110 punch down strip on Telecom Expansion Module. Allow slack for bundling and trim cable 2 inches beyond punch down strip.
   2) Strip off approximately 4 inches of the outer jacket and position the pairs over the color coded slots on the 110 strip (see ***Figure 3***).

   NOTE: Do not untwist pairs. White wires may not have color trace stripe. Keep white wire paired with appropriate colored wire.
   3) Punch down and trim wires using a punch down tool and remove any excess wire.
   4) Tug lightly on the cable to insure wire is securely fastened.
   5) Repeat steps 1-7 for the WAN Outlet cable using the "OUT" 110 punch down strip on the Telecom Expansion Module.
   6) Use a Cat 5e jumper to cross connect the WAN service in to WAN service out.

F. Securing Cables:
   1) After all cables are connected to the Modules, the cables should be bundled with wire management straps and grouped to allow ease of maintenance.

4. Testing

A. To test the outlet wiring from the Telecom Modules to the wall outlets, turn all switches on "Test Switch" to "OFF" and insert line tester into the RJ-45 jack labeled "Outlet Test". Perform the test at each wall outlet. All outlets, including those on the Telecom Expansion Module will be testable.

B. To reset the Telecom Module to normal operation mode, insure all switches are set to the "ON" position.

5. Other Applications (If Applicable)

A. Security Interface:
   1) To enable line seizure and dial out capability to most security systems, connect the RJ-31X cable (supplied with the security system) to the RJ-45 "Security" jack on the 1x6 Module. TURN OFF Line 1 to activate the security link. Connect the other end to the security system as outlined in the security system installation instructions.
   2) To disable security, remove the connector from the "Security" jack and set Line 1 to "ON".

   NOTE: Line 1 (blue pair) is sent to the RJ-31X jack.

B. Surge Protection:
   1) See instructions supplied with On-Q Surge Suppression Unit (P/N 363487-01).