

### Introduction

The HS-TH1600 is an Analog Telecom Distribution Module for use with the DSC Concourse™ Home Wiring Systems solution. The HS-TH1600 features an 8 position 110 IDC connector for up to 4 incoming lines, six RJ-45 jacks for connecting outlets to the system and an RJ-45 jack as an expansion connector. Security systems can be added to the module either on Line 1 or Line 2 using an RJ-31X Security System interface.

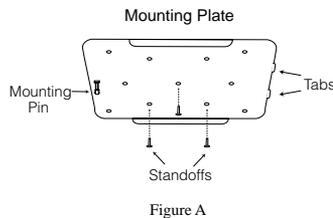
### Contents of Package

Before installing the module, confirm that the package contains the following parts:

- one HS-TH1600 Analog Telecom Distribution card
- one HS-MP200 mounting plate
- six plastic standoffs.

### Installation Instructions

1. Insert the standoffs into the HS-MP200 mounting plate as per Figure A, matching the hole pattern on the HS-TH1600 Telecom Distribution Hub.



2. Align the HS-TH1600 Telecom Distribution Hub over the standoffs and snap into place.
3. Find a suitable mounting location for the HS-TH1600 Telecom Distribution Hub inside the cabinet.
4. Align the two mounting tabs with the holes in wire raceway and insert as per Figure B.
5. Snap the module into place by pushing the opposite side towards the back of the cabinet.

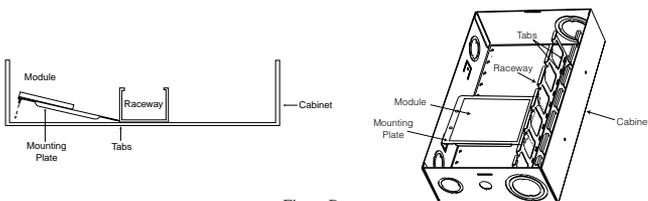


Figure B

## **Wiring Instructions**

### **A. Incoming Telecom Service Cable(s)**

1. Route the incoming telephone service cable(s) into the cabinet through the raceway to the HS-TH1600 Telecom Distribution Hub. Allow sufficient length at both ends of the run to avoid stress and for proper termination and trim out.
2. Terminate the incoming telecom service cable(s) at the 'LINE IN' IDC connector using a 110 punchdown tool. Line 1 terminates at L1, Line 2 at L2, Line 2 at L3 and Line 4 at L4. See Figure C.
3. Test all connections to confirm proper installation and termination.

### **B. Outlet Cables**

1. Home run CAT5 cable to each desired telecom location and route the cables into the cabinet through the raceway to the HS-TH1600 Telecom Distribution Hub. Allow sufficient length at both ends of the run to avoid stress and for proper termination and trim out. Label each cable at both ends for easier identification.
2. Terminate each CAT5 drop at the desired location using an RJ-45 keystone jack wired to TIA 568A standard observing proper CAT5 wiring practices. Trim out using the appropriate wall plate. If using a multiple wall outlet mark the telecom jack accordingly.
3. Terminate each CAT5 drop at the HS-TH1600 Telecom Distribution Hub with an RJ45 plug wired to TIA 568A standard and observing proper CAT5 wiring practices. See Figure C.
4. Test all connections to confirm proper installation and termination.

### **RJ-31X Security Panel Connection**

If a Security panel is to be connected to Line 1, use the RJ-31X Line 1. If a Security panel is to be connected to Line 2, use RJ-31X Line 2. Follow the Installation Instructions included with the Security system for proper connection to the RJ-31X jack.

**Note:** *This module is intended for use with Analog telephones and POTS (Plain Old Telephone Service). Any other use may cause improper operation of the connected equipment. All RJ-45 connectors are connected in parallel and therefore output connections can be made at any RJ-45 jack. The RJ-45 LINE OUT jack is also connected in parallel to the output RJ-45 jacks, providing a service expansion port. Input Lines 3 and 4 are connected in parallel to all of the RJ-45 jacks and the LINE OUT Jack. Lines 1 and 2 are designed for use with RJ-31X connector, however they are connected in parallel with the RJ-45 jacks when no RJ-31X plug is in the jack.*

**Important:** *All requirements for installation of CAT5 should be met for proper operation of connected equipment. Do not strip off cable sheathing more than required for proper termination. Do not kink or knot cable. Do not crush cable with cable ties. Do not bend cable at right angles or any other sharp bends. All cable bends should have a minimum of a 2" radius. Do not untwist pairs more than ½".*

# Wiring Diagram

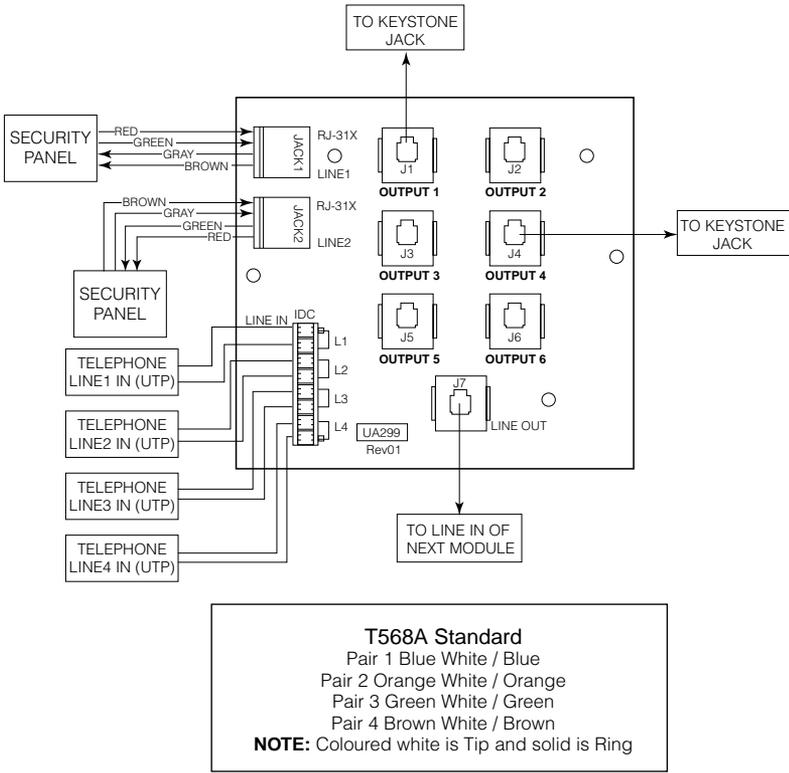


Figure C

## Specifications

Telephone Input Lines: .....	4
Applicable Wiring Standard: .....	T568A
Output Connections: .....	6
Security Interfaces (RJ-31X): .....	Line 1 & Line 2
Input Connection: .....	110 Style IDC
Output Connection: .....	RJ-45
Line Out Connection: .....	RJ-45

## Warranty

Digital Security Controls Ltd. warrants that for a period of 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, Digital Security Controls Ltd. shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of Digital Security Controls Ltd. such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Digital Security Controls Ltd. Digital Security Controls Ltd. neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf, to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

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