# Truelime 

Model 560-5141-3I
Twinax/Triax Passive Input Interface Manual

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## SECTION ONE

## 1. GENERAL INFORMATION

### 1.1. PURPOSE OF EQUIPMENT

The TrueTime Model 560-5141-3I Twinax/Triax Passive Interface provides the input interface for a compatible front function card. The two pair of $\pm$ inputs are fed directly through the backplane connector to the front function card. The input signals are via two concentric twinax/triax connectors ( A and B ) at the rear panel for use in differential mode with balanced termination.

### 1.1.1. PHYSICAL SPECIFICATIONS

Dimensions: $\quad 0.8 " w \times 4.4 " \mathrm{~h} \times 5.0$ "d ( $2 \mathrm{~cm} \times 11 \mathrm{~cm} \times 13 \mathrm{~cm}$ )
Weight:
Approximately $1 / 2$ pound $(1 / 4 \mathrm{~kg})$

### 1.1.2. ENVIRONMENTAL SPECIFICATIONS

Operating Temp: $\quad 0^{\circ}$ to $+50^{\circ} \mathrm{C}$
Storage Temp: $\quad-40^{\circ}$ to $+85^{\circ} \mathrm{C}$
Humidity: Up to $95 \%$ relative, non-condensing
Cooling Mode: Convection

### 1.1.3. POWER REQUIREMENTS

Power: None

### 1.1.4. FUNCTIONAL SPECIFICATIONS

### 1.1.4.1. INPUT CONNECTOR

Type:
Quantity:
Pinout:
Center Conductor: + Input Inner Shield: - Intput Outer Shield:
Mating Connector:

TROMPETER BJ77 Concentric Twinax/Triax Jack 2 (A and B only)

Signal/Chassis GND
TROMPETER PL75 Plug

### 1.1.4.2.DRC CARD COMPATIBILITY

Location:
Slot 1-17 with compatible function card in front slot.

## SECTION TWO

## 2. INSTALLATION AND OPERATION

### 2.1. HOT-SWAPPING

All cards, input cables and output cables are hot swappable. It is not necessary to remove chassis power during insertion or removal. The system is designed to protect against permanent effects and minimize any temporary effects of hot swapping.

### 2.2. REMOVAL AND INSTALLATION

CAUTION: Individual components on this card are sensitive to static discharge. Use proper static discharge procedures during removal and installation.

Refer to CARD COMPATIBILITY section prior to installing new card.
To remove card, loosen the captive retaining hardware at the top and bottom of the assembly, then firmly pull on the handle (or on any connector on rear panel adapter cards) at the bottom of the card. Slide the card free of the frame. Refer to the SETUP section for any required switch settings; or, set them identically to the card being replaced. Reinstall the card in the frame by fitting it into the card guides at the top and bottom of the frame and sliding it in slowly, avoiding contact between bottom side of card and adjacent card front panel, until it mates with the connector. Seat card firmly to avoid contact bounce. Secure the retaining screws at the top and bottom of the card assembly.
2.3. SETUP

This card has no setup requirements.
2.4. FAULT INDICATION

This card has no fault indication.

### 2.5. MAINTENANCE

This card has no maintenance requirements.

## SECTION THREE

## 3. THEORY OF OPERATION

### 3.1. GENERAL INFORMATION

This section contains a detailed description of the circuits in the Passive Input card. These descriptions should be used in conjunction with the drawings in SECTION FOUR.

### 3.2. HARDWARE DESCRIPTION

The Passive Input card incorporates six concentric twinax/triax connectors, each with a center conductor, inner shield and outer shield. These are intended to be used with either twinax or triax cables.

### 3.3. DETAILED DESCRIPTION

Reference drawing 560-5141-3. Each connector pin provides input via the backplane connector for the front PCB.

## SECTION FOUR

4. DETAILED DRAWINGS
4.1. 560-5141-3 DETAILED DRAWINGS / BILL OF MATERIALS
4.2 560-5141-3I BILL OF MATERIALS

|  |  | EF | REV |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PART IDEMTIFIER | DESCRIPTIOM 1 DESCRTPTIOH? | DATE | EM | GTY/ASSY | บ0\% | REPRENEE DESCRIPTIOM |
| 560-5141-31 | PASATVE OUI INTFC THMAD InPUT |  |  |  | EA |  |
| 0000-APPROYAL | PARTS LIST APPPOVAL | 0000 |  | 1.0000 | 6 A | $\text { GWP } B / \angle 2 \angle C$ |
| 0000-P1 | PARTS LIST REY LEVEL | 0000 |  | 1.0000 | 5A | REX N/C $100-22-98)^{4}$ |
| 0000-PRTM | REFERENCE PRIMT | 0000 |  | 1.0000 | EA | SEE 560-5141-3 |
| 560-5141-3 | PASSIVE UUT INTC TMIMAX HADE FROM 560-2141.3 | 0000 |  | 1.0000 | CA |  |
| LA | LABOR ASSEMELY COST MAS | 0000 |  | 0 | CA |  |
| LT | LABOR TEST COSY HOURS | 0000 |  | 0 | EA |  |
| NOTE |  | 0000 |  | 1.0000 | [A |  |
|  | RE-LABEL PAREL AS DESCRTBED BELOM: REHOUE "OUTPuT" |  |  |  |  |  |
|  | RE-LABES SME LOCATIOM AS "INPUT" |  |  |  |  |  |




