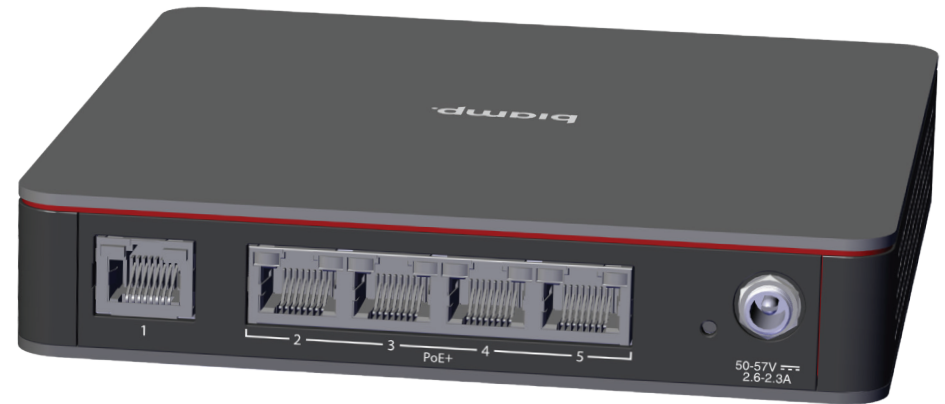# TesiraCONNECT TC-5
Installation & Operation Guide

biamp.

Product Description

TC-5

The TesiraCONNECT™ TC-5 is an AVB-capable PoE+ five-port room expansion device designed to connect Biamp AVB equipment in small conference systems.

Four ports provide PoE+ with no power budget restrictions. The TesiraCONNECT eliminates the need for third-party switches and provides power and media streaming to each Biamp device via category cable.

Setup and Use

The TesiraCONNECT is designed to work out of the box without any user configuration required, but Tesira software provides an intuitive interface for features such as locate and firmware updates. The information supplied by this manual relates to physical connections and device setup. For more details on software, please consult the Tesira Help File.

Up to four TesiraCONNECT devices may be connected in daisy chain or star topology to support additional Tesira devices or remote mounting locations.

Installation

Install away from heat sources, such as vents, radiators, heat registers and stoves. Also avoid installing near water or steam. Do not exceed the maximum ambient operating temperature of 32-104° F (0-40° C). Be aware of conditions in an enclosed rack that may cause the temperature to exceed ambient room conditions.

TesiraCONNECT may be installed in various locations and an optional mounting bracket (ordered separately) allows the TesiraCONNECT to be securely fastened under tables, on walls, etc.

Features

- Five AVB-capable RJ-45 ports
- Four ports support PoE+ power (IEEE 802.3at Class 4, 30W)
- Up to 4 TesiraCONNECT devices can be daisychained together
- Front panel LED status indicators
- Fault reporting and device monitoring supported in SageVue™
- Compatable with Tesira conferencing products
- Includes power supply

Product Installation

TesiraCONNECT may be installed in almost any location that is convenient for room design, requirements, etc. Be sure to allow for adequate airflow over the ventilation grilles.

- On a rack shelf
- In a plenum/air-handling space
- In a cabinet/credenza

Optional Mounting Bracket Kit

An optional mounting bracket may be ordered separately which allows greater flexibility in mounting options, such as directly under a table, on a wall, behind a display or any other flat surface that requires secure mounting.

The mounting bracket kit contains the following:

A) Mounting Bracket
B) Screw (x4)
C) Lock Washer (x4)
D) Washer (x4)
E) Screw (x4)
F) Zip Ties (x25)
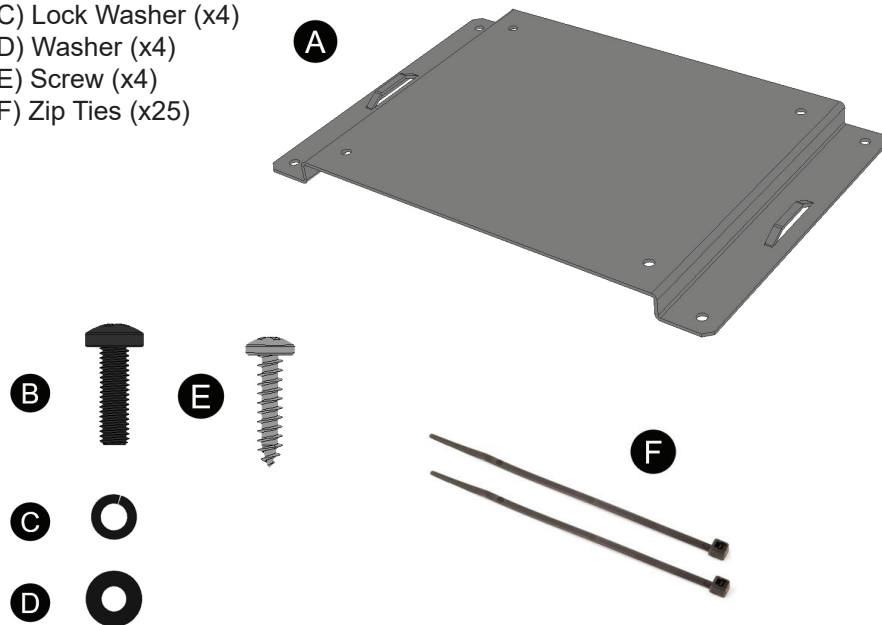
1. Determine the location where the TesiraCONNECT is to be located.
2. Install the bracket onto the TesiraCONNECT with hardware as shown in Figure 1.
3. Install the bracket and attached TesiraCONNECT at the desired location with the hardware provided as shown in Figure 2.
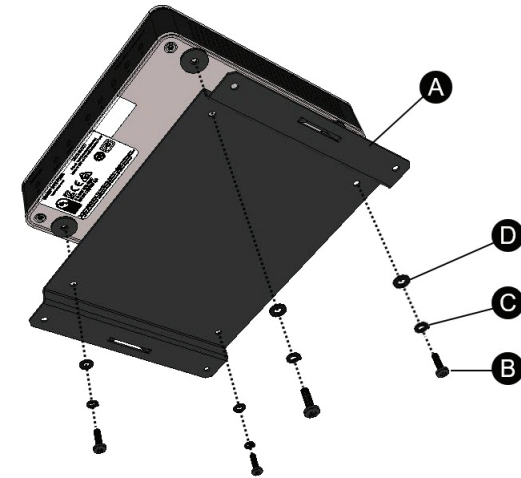4. Use the included zip ties to secure the power supply and cables as required (not shown).
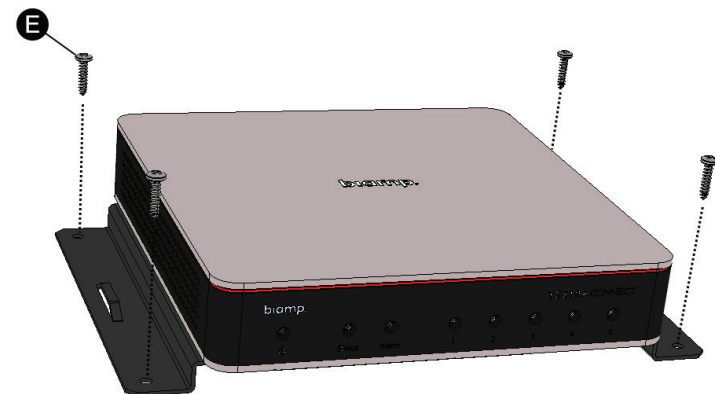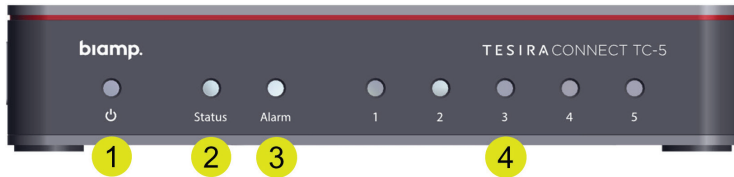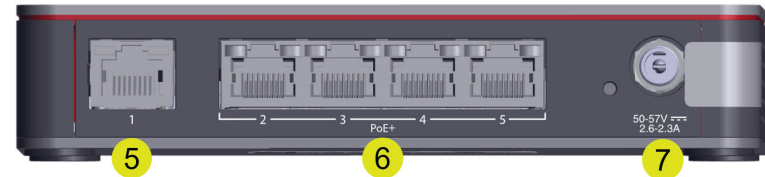
Figure 1 - Mounting Bracket Installation

Figure 2 - TesiraCONNECT Installation

Front Panel

1. **Power Indicator**
2. **Device Status**
3. **Alarm Status**
4. **RJ45 AVB Port Status**

Rear Panel

5. **RJ45 AVB Port (non-PoE+)**
6. **RJ45 AVB Ports (PoE+)**
7. **Power Connection**

Front Panel LEDs

There are eight multi-color LEDs on the front panel of the TC-5D which give various information to a user.

1. Power

Status	LED Indicator
No Power	Off
Device is powered	Green Solid
Device is in Locate mode (triggered from the software)	Green Flashing
Device is booting	Yellow Solid

2. Status

Status	LED Indicator
No Power	Off
Device is fully booted/ready	Green Solid
Device is in Locate mode (triggered from the software)	Green Flashing
Device is booting	Yellow Solid

3. Alarm

Status	LED Indicator
No Alarm Condition Present	Off
Device is in Locate mode (triggered from the software)	Green Flashing
Unit has a major alarm present	Red Solid
Unit has a minor alarm present	Yellow Solid
Unit has a major and minor alarm present	Alternating Red/Yellow

4. RJ45 Port Status Indicators

Status	LED Indicator
No Alarm Condition Present	Off
Ethernet link is active	Green Solid
Device is in Locate mode (triggered from the software)	Green Flashing

5/6. RJ45 AVB Ports (PoE+/non-PoE+)

Status	LED Indicator
When Ethernet Link is down	Both LEDs Off
When Ethernet Link Up	Right LED Green Solid
When PoE is delivering Power	Right LED Orange Solid
When data activity	Left LED Green Flashing
When no data activity (with Link up)	Left LED Green Solid

NOTE: RJ45 AVB does not include PoE+.
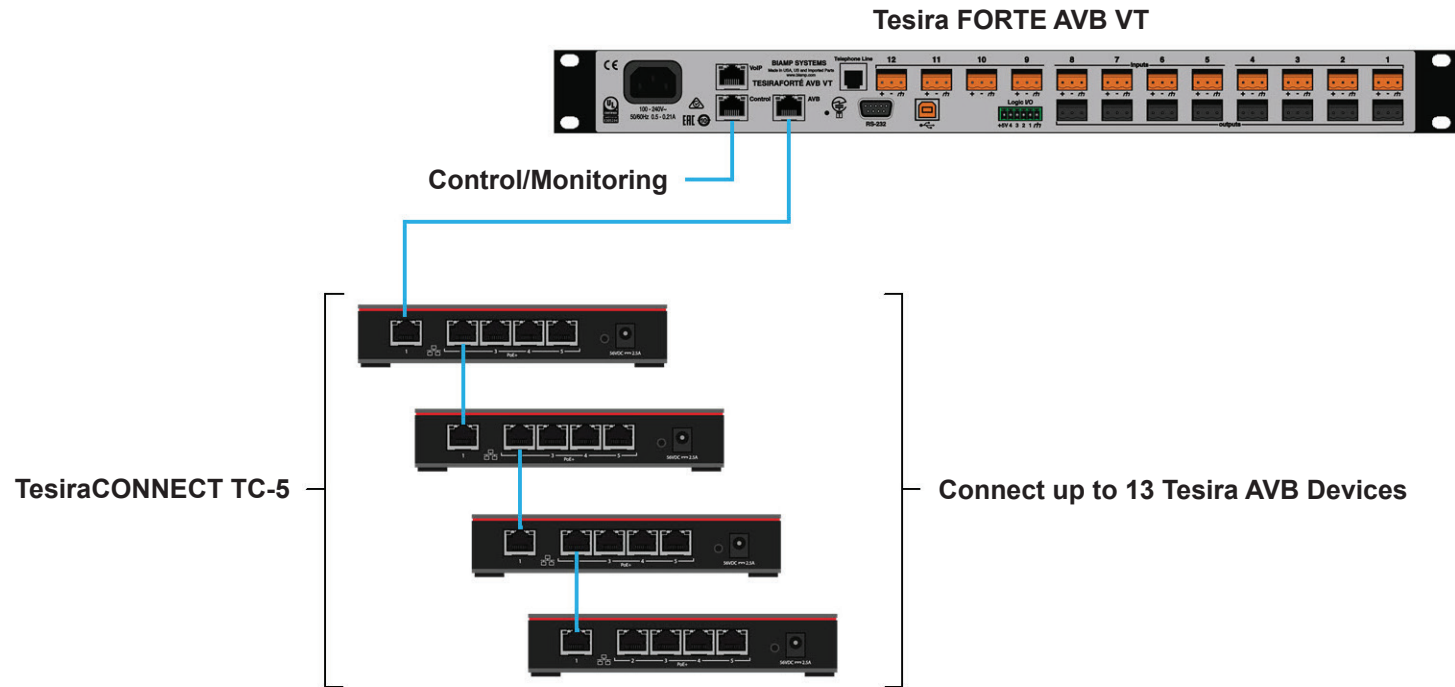
TesiraCONNECT Wiring Topology Examples

Tesira FORTE AVB VT

Control/Monitoring

TesiraCONNECT TC-5

Connect up to 13 Tesira AVB Devices

Four TesiraCONNECT TC-5 Devices in Daisy Chain Topology

Tesira FORTE AVB VT

Control/Monitoring

TesiraCONNECT TC-5

Connect up to 13 Tesira AVB Devices
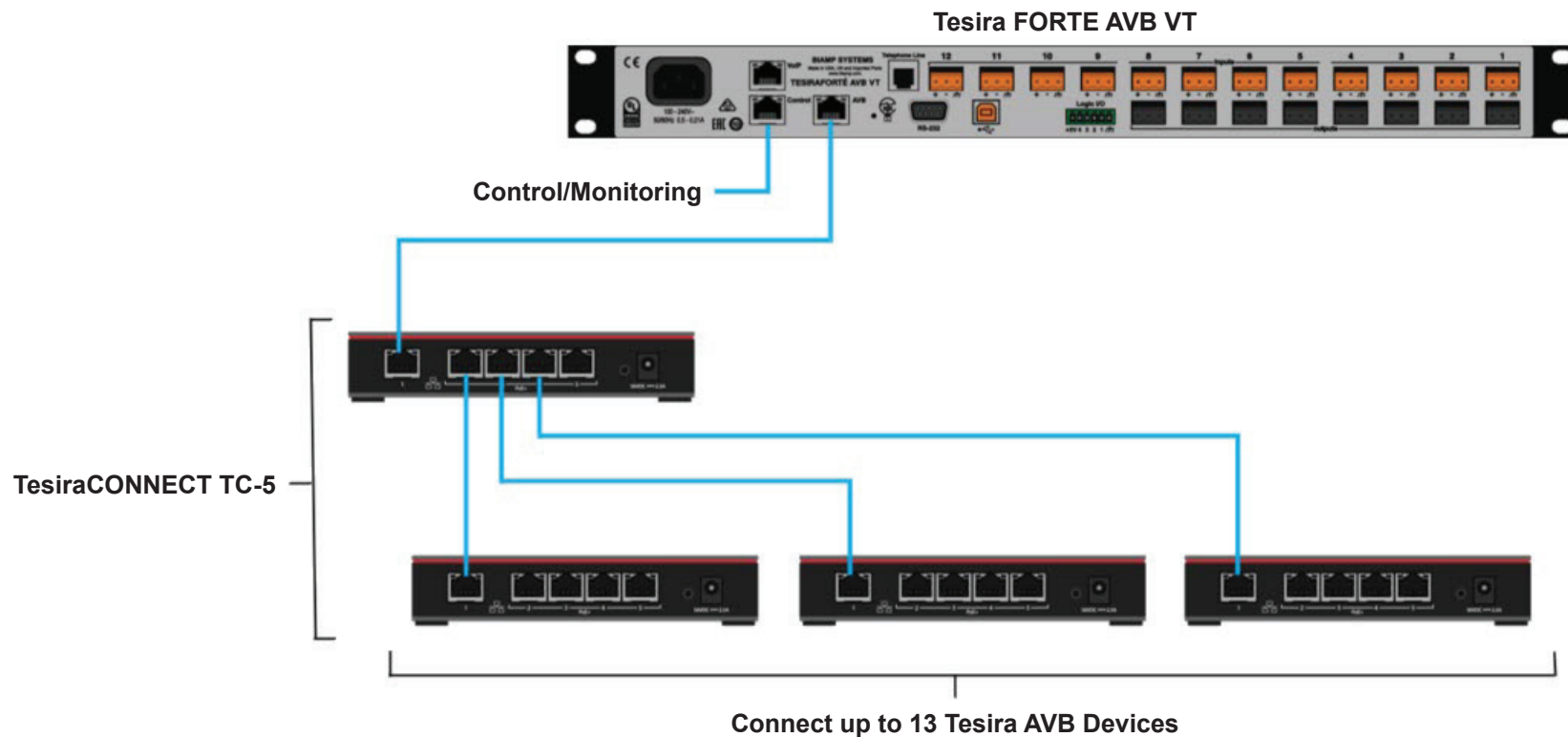
Four TesiraCONNECT TC-5 Devices in Daisy Chain Topology

TesiraCONNECT System Deployment Examples

TesiraFORTE AVB VT4

Control/Monitoring

TesiraCONNECT TC-5

EX-UBT

Soft Codec

TCM-XA with Parle Mics and 4 Speakers
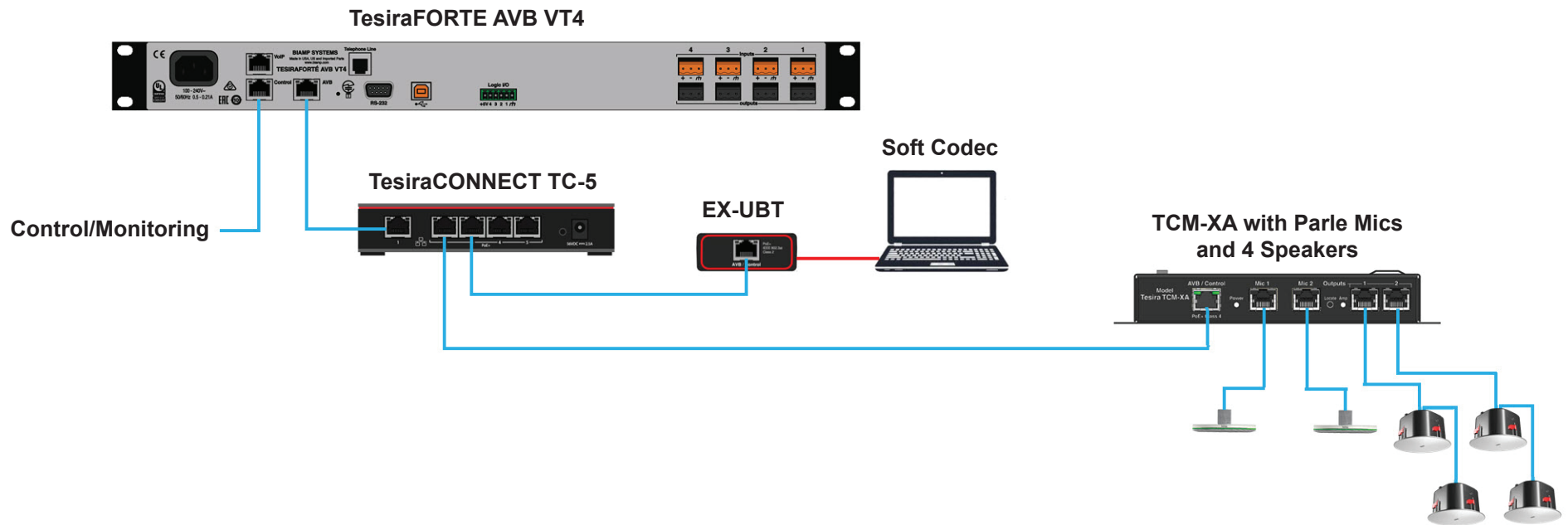
Cat-5e	
USB	

One TesiraCONNECT TC-5 in a Typical Conference Room

TesiraCONNECT System Deployment Examples continued

TesiraFORTE AVB VT

Control/Monitoring

Soft Codec

EX-UBT

TesiraCONNECT TC-5

TesiraCONNECT TC-5

EX-UBT

Soft Codec

**TCM-XA with Parle Mics
and 2 Speakers**

**TCM-XA with Parle Mics
and 2 Speakers**

**TCM-XA with Parle Mics
and 2 Speakers**

**TCM-XA with Parle Mics
and 2 Speakers**

Cable Type	
Cat-5e	
USB	

Two TesiraCONNECT TC-5 Devices in a Divisible Space

TesiraCONNECT System Deployment Examples continued

Room #1

Room #2

TesiraFORTE AVB VT4

TesiraFORTE AVB VT4

Control/Monitoring

Control/Monitoring

TesiraCONNECT TC-5

**TCM-XA with 2 Parle Mics and
4 Speakers in Daisy Chain**

**TCM-XA with 2 Parle Mics and
4 Speakers in Daisy Chain**

Two Rooms Sharing one TesiraCONNECT TC-5

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