



# CD80SV TO C21 PROCESSOR RETROFIT KIT

## INTRODUCTION

This document provides installation instructions for the following product(s):

- CD80SV to C21 Processor Retrofit Kit

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**NOTE:** SWC and OUTLOOK are NOT supported in C21 / EC21 ACE. If current system includes either of these controls, the control system must be upgraded to Vision.net upon upgrade of processor. We also strongly recommend in this situation to upgrade ALL racks at the same time.

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**CAUTION!** Before attempting any electrical work, disconnect power at circuit breaker or remove fuse to avoid electrical shock or damage to the equipment. It is recommended that a factory certified technician perform this procedure to ensure new processor housing is covered under warranty.

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## PROCEDURE

**To install a CD80SV to C21ACE Processor Retrofit Kit, do the following:**

- Step 1. Make sure all power is removed from equipment. Note, turning off the dimmers DOES NOT disconnect the power from equipment.
- Step 2. Remove all dimming modules and trays. Strand recommends cleaning the modules during upgrade process.
- Step 3. Remove existing TS1 and TS2 thermostats located on metal bracket above the NEUTRAL BUS.

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**NOTE:** You shall cut the Orange/Yellow/Red/Black/Grey wires going to thermostats and splicing them to replacement C21 ACE Temp Sensor (part number 3-723214-010). Original color codes will apply.

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- Step 4. Install Thermal Sensor Bracket (part number 2-109725-010) using existing mounting holes previously used for TS1 and TS2 thermostats.
- Step 5. Install the Temp Sensor (part number 3-723214-010) onto Thermal Sensor Bracket.
- Step 6. Install Lexan Cover (part number 2-150195-010) over Temp Sensor (part number 3-723214-010).
- Step 7. T1-T6/B1-B6 Wire Harness Adapter (part number 3-381-0019) installation. All 12 adapters are needed for 48-Slot dimmer racks. These wire harness adaptors convert CD80SV control wire harness to be compatible with C21 ACE processor connections.
- Step 8. Land control wiring as follows:

**ETHERNET:** Ethernet cable can be run to the switch on the housing if Ethernet network is being added to system. Land Ethernet cable on the connector on the left side of the switch, that is off by itself.

**DMX IN / DMX OUT:** on DMX connectors

**VISION.NET:** Move to 9-pin connector, D+ on pin 1, D- on pin 2

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**NOTE:** If upgrading OUTLOOK to Vision.net using existing wiring, land control wires on 9-pin Vision.net connector as follows: Red - pin 1 D+, Black - pin 2 D-, White / Black - pins 4, 6 V+, Green / Black pins 5, 7 V-

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**NOTE:** C21 / EC21 ACE does NOT support OUTLOOK or SWC. Control MUST be upgraded to Vision.net or removed.

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**NOTE:** Although a C21 ACE Processor is now part of the CD80SV dimming rack, CD80SV dimmer modules do not support the reporting feature of the processor.

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- Step 9. Reinstall dimmer trays and modules.
- Step 10. After installation is complete, power dimming rack and processor and test operation.

**NEED HELP?** For technical assistance regarding this and all Strand products, contact us at 1.214.647.7880.