# L86

EM264 Electronics Module
installation rack

U S E R   M A N U A L

The *L86 Installation Rack* is a modular dimming system that consists of electronics and dimmer modules in a fan-cooled, steel housing. A rack consists of one or more bays, which, in turn, consist of either one or two chassis. Each chassis consists of three columns of modules. The top left slot usually holds the electronics receiver module. The second slot in each column is for electronics modules. The slots below the electronics modules contain dimmer modules.

Note: The top center and right slots are used to store spare modules; control signal is not routed through them.
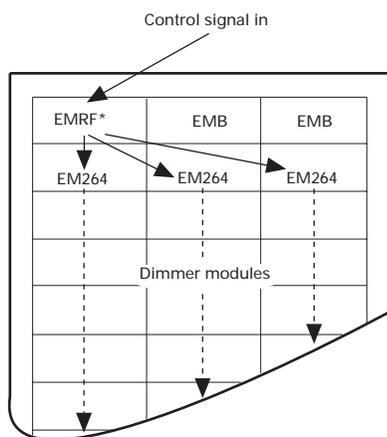
Electronics modules

Depending on the configuration of your system, each chassis contains some of the module types described below. Refer to your System Manual for more specific configuration information.

EMRF   Typically installed in the top left slot, the *EMRF* receives DMX512 control signal and sends it to the *EM264s* without processing. It is used in systems not configured to accept AMX192 control signal.

EMAR   Also installed in the top left slot, the *EMAR* can be configured to accept D192 control signal on either input or to accept AMX192 control signal on the first input.

EM264   Receives DMX512 control signal from the *EMRF* or *EMAR* and splits the low voltage serial control data into single low voltage signals for individual dimmer modules. An *EM264* must be installed in the second slot from the top in each column of dimmer modules.

EMB   Fills unused electronics module slots to maintain proper ventilation.

Architectural electronics modules

In a system that incorporates architectural lighting, the EMAP is the component of the dimming system that processes level-setting data from architectural lighting control stations. The EMAP is mounted either in an ARR (Architectural Receiver Rack-mount) unit or in an ARW (Architectural Receiver Wall-mount).

On smaller systems, DMX512 signal from the control console is routed to the EMAP, the dimmer levels for the architectural lights are added, and then data is sent to the dimmer chassis.

On larger systems, the DMX512 signal from the control console is routed directly to the dimmer chassis. The EM264s then merge control signal from the console with DMX512 signal from the EMAP.

Removing electronics modules (except EMAPs)

In certain situations, you may need to remove electronics modules. You do not need to disconnect power to the rack prior to removing modules.

To remove a module, unscrew the brass retaining screw in the center of the module face panel until you are able to slide out the module. To reinsert the module, press gently and steadily on the face panel of the module while you tighten the retaining screw. Tighten the screw with a screwdriver, but be careful not to strip the threads on the screw!

The arrows in the diagram below illustrate the flow of control signal in a typically configured *L86 Installation Rack.*

*Electronics module in this location may be an *EMRF* or *EMAR*.