



## RA2 Select Design Checklist

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This checklist is intended to provide reminders during the design stage of a project.

**1 Main Repeater, 4 Auxiliary Repeaters, and 100 total devices per system**

The Main Repeater and Auxiliary Repeaters will each use an address, so they will need to be considered in the device count.

**Ethernet**

The Main Repeater must be connected to the local area network using Ethernet and it must be wired to its own router or switch port. Cross over and straight-through cables can both be used as the Main Repeater can auto-detect the cabling used and conform to it automatically.

**Select Dimmers**

The **RRD-6ND** should be used in forward phase dimming applications if a neutral connection is available. This neutral connection improves dimming performance with LED loads (lower minimum load, etc.) and it is also the most cost-effective RA2 Select dimmer. The RRD-6ND supports up to 600 W / 600 VA (Incandescent / Halogen / MLV) or 150 W (CFL / LED).

The **RRD-6NA** should be used whenever reverse phase dimming is required. The RRD-6NA is adaptive, which means it can also output a forward phase dimming curve, making it a versatile dimmer when the exact load type is not known. The RRD-6NA supports up to 600 W / 600 VA (Incandescent / Halogen / MLV / ELV) or 150 W (CFL / LED). The RRD-6NA also requires a neutral connection.

The **RRD-10ND** should be used in forward phase dimming applications if the load exceeds 600 W / 600 VA (Incandescent / Halogen / MLV). The RRD-10ND supports up to 1000 W / 1000 VA (Incandescent / Halogen / MLV / ELV) or 150 W (CFL / LED).

The **RRD-6CL** should only be used in forward phase dimming applications if a neutral connection is not available. Older homes are more likely to not have a neutral wire available, making this dimmer a unique solution in the industry for providing dimming of LED loads using only two wires. The RRD-6CL supports up to 600 W / 600 VA (Incandescent / Halogen / MLV) or 150 W (CFL / LED).

### □ Select Switches

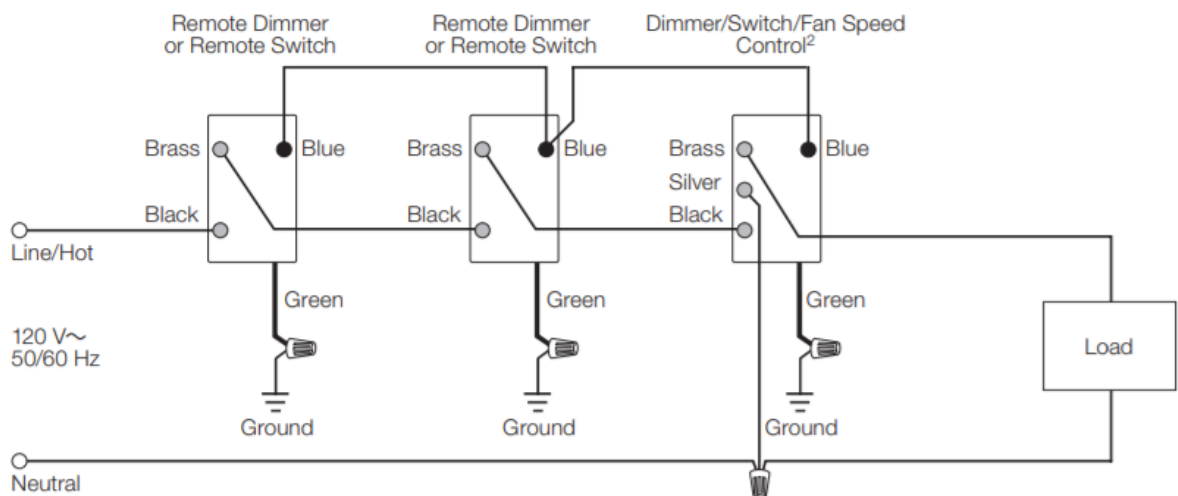
The **RRD-8ANS** should be used with switched lighting loads and small motor loads (exhaust fans, etc.). The RRD-8ANS can support up to 8 A Lighting or a 1/4 HP 5.8 A Motor load. The RRD-8ANS has a lower minimum load requirement than the RRD-8S-DV, so it will perform better with energy efficient loads. The RRD-8ANS is also more cost-effective than the RRD-8S-DV.

The **RRD-8S-DV** should be used with switched lighting loads and small motor loads (exhaust fans, etc.) when there is no neutral connection available.

- **RRD-6ND, RRD-6NA, RRD-10ND, RRD-8ANS, RRD-2ANF, and RRD-F6AN-DV require a neutral**  
A neutral connection in the wallbox is required for the above models to operate properly. If neutral is not available, do not specify these products, and instead choose the RRD-6CL or RRD-8S-DV.

### □ Account for 3-way/4-way locations

Standard toggle switches cannot be used with RA2 Select dimmers/switches in 3-way/4-way applications. RD-RD remote dimmers, RD-RS remote switches, or wallbox mounted Pico remotes must be used. When the dimmer/switch requires a neutral connection, it must be installed on the load side of the circuit.

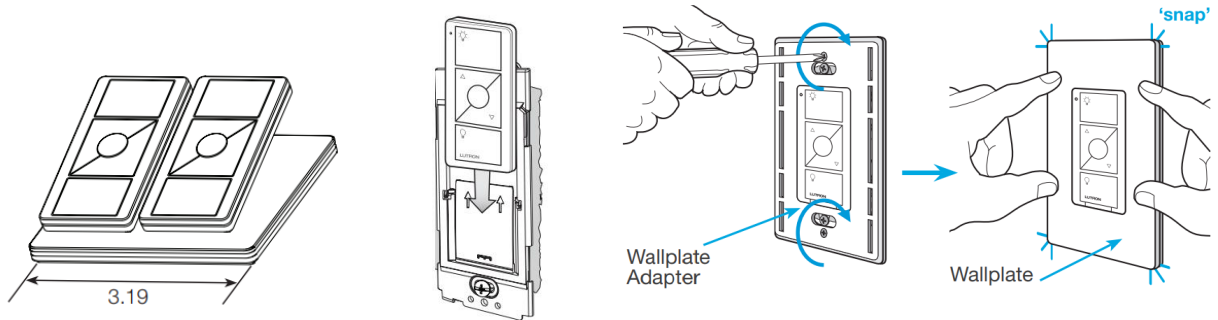


### □ Identify areas where interfaces are required

In cases when RA2 Select does not have dimmers to directly support certain load or control types (e.g. 0-10V), or a higher wattage load needs to be controlled, an interface (and the appropriate dimmer) will be needed. Tools such as the LED Product Selection Tool are very important in identifying the proper dimming control and can be found at [www.lutron.com/leds](http://www.lutron.com/leds). Lutron offers interfaces for converting the dimming signal from a RA2 Select compatible dimmer to other control types, as well as Power Boosters for loads that exceed the ratings of a dimmer or switch.

□ **Identify control points and select Pico Remotes and Scene Keypads**

Points of entry into rooms, especially those with many layers of light, will benefit from wall-mounted Picos to set an initial local scene for using the space. Once in the space, it is a best practice to have an additional Pico, smart phone, or tablet for control from within. Pico pedestals are available in 1, 2, and 3 gang for conveniently providing control from the bedside, counter-top, or coffee table. For adding additional control to the wall without cutting holes and pulling wire, a Pico wall-adapter can be used to add the Pico to the wall and gang within an existing or new wallplate to match the decor.



□ **Engraving**

The Pico® 4-Button wireless remote offers customizable engraving on Zone and Scene controls for both lights and shades. Engraving for Picos must be determined prior to ordering because Picos do not have removable button kits.

□ **Plan for areas requiring occupancy/vacancy sensors**

Certain areas of the home can benefit from the addition of Radio Powr Savr™ occupancy/vacancy sensors. Example areas include utility rooms, closets, pantries, garages, etc. Be careful about adding sensors to certain areas of the home like living rooms, bedrooms, etc. Multiple sensors can be used to ensure adequate coverage.