

# docs

## ATOM / SYNC-GUARD

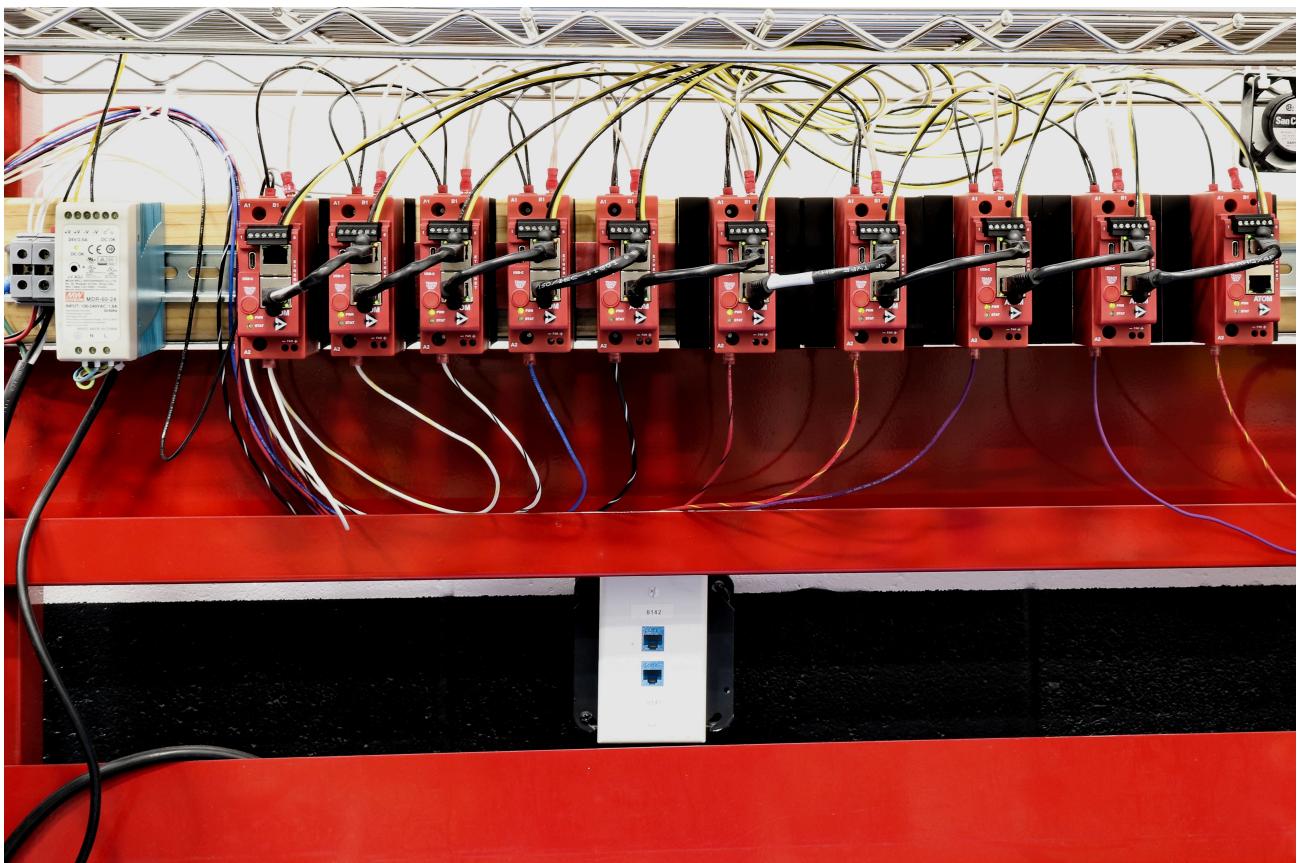
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# ATOM / SYNC-GUARD



SYNC-GUARD™ is useful whenever there are two or more power controllers connected to the same power source with zero-cross firing mode selected. SYNC-GUARD can significantly reduce the peak current required from a source that is supplying AC power to multiple power controllers while all are zero-cross firing.

Without SYNC-GUARD™, multiple zero cross controllers could potentially be ON and OFF at the same time. This would require much greater current drawn from the source while the controllers are ON, and no current when they are OFF. The SYNCGUARD feature works to reduce peak current draw required from the source by allowing each controller to attempt to find a time to turn ON when fewer, or no other, controllers are firing.

When enabled, SYNC-GUARD™ reduces the possibility of synchronous firing of two or more controllers. This feature does not alter the power applied to the load, but adjusts the time when power is applied in such a manner as to reduce the chance of multiple controllers simultaneously being ON or OFF.

Limitations:

- SYNC-GUARD™ works to reduce the peak current draw from a source powering multiple controllers. Each controller cannot predict when another controller is going to fire. The probability of multiple controllers firing at the same time still exists when
- SYNC-GUARD™ is enabled. This most commonly occurs if many controllers transition to the RUN state and begin outputting at the same time.
- SYNC-GUARD™ is compatible with up to 10 controllers on the same network.

## Enabling SYNC-GUARD

Sets the state of the SYNC-GUARD™ feature. When a compatible zero-cross firing mode is selected, this parameter is able to be enabled/disabled through fieldbus communications or within Control Panel under the Firing Mode selections

