# Ring Bus application with more than 32 generators

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Do you want to build a
**Ring Bus application with +32 generators and many more?**

Here is how to connect +32 generators:

One GroupController GC3400XT is added to each powerplant and used as smart an IED (intelligent electronic device) load share gateway collecting all easYgen-3500XT within this group.

No need to connect current and voltage sensing but can be wired.

GC-3400XT's Group breaker is always seen as closed, as there is no physical group breaker

All GC3400XT communicating via Ethernet B & C redundant Ethernet to other GC-3400XTs.

Each GroupController communicate via CAN Ethernet A to each easYgen-3500XT within the group.

Each GroupController can placed within the group where it is convenient.

GroupControllers LDSS (Load dependent start & stop) functionality can be used to sequence individual gensets within each group.

Layer 1 n+1 easYgen-3500XT controls within one group are connected to above GC-3400XT in Layer 2.

Ring Bus Couplers & incoming Mains Feeders can be served by LS-6XT in Layer 3 as well:

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Documentation GroupController
https://wss.woodward.com/manuals/PGC/easYgen-3000XT_series/easYgen%20l%20GC-3000XT