



This Datasheet is for the

[IC693CMM301](#)

Genius Communications Module (GCM)

<http://www.qualitrol.com/shop/p-14624-ic693cmm301.aspx>

Provides the wiring diagrams and installation guidelines for this GE Series 90-30 module.

For further information, please contact Qualitrol Technical Support at

1-800-784-9385

support@qualitrol.com

IC693CMM301 Genius Communications Module (GCM)

The *Genius Communications Module (IC693CMM301)* for the Series 90-30 PLC provides global communications on a Genius Communications bus between Series 90-30 PLCs and/or other GE Fanuc PLCs. Series 90-70, Series Six, and Series Five PLCs can communicate on this bus through their respective Genius Bus Controllers.

The Genius Communications bus is a token passing peer-to-peer, noise immune network optimized to provide high speed transfer of real time control data. Up to eight Series 90-30 PLC CPUs, in any combination, can communicate with each other over a single Genius I/O serial bus using a standard twisted pair, shielded cable.

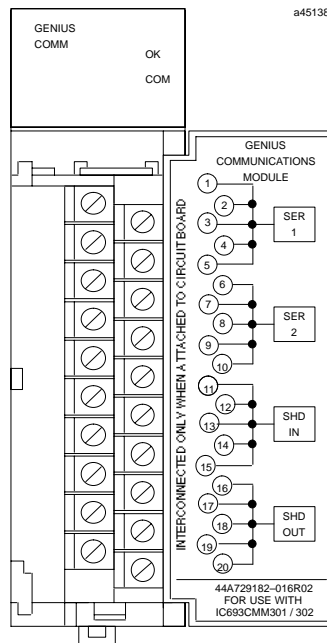


Figure 8-1. The IC693CMM301 GCM Module

Status LEDs

The LEDs on the front of the GCM module indicate its operating status and should be on during normal operation.

- OK** Shows the status of the GCM module. This LED turns on after power up diagnostics are completed.
- COM** Shows the status of the Genius communications bus. This LED is on steadily when the bus is operating properly. It blinks for intermittent bus errors and is off for a failed bus. It is also off when no configuration has been received from the PLC CPU.

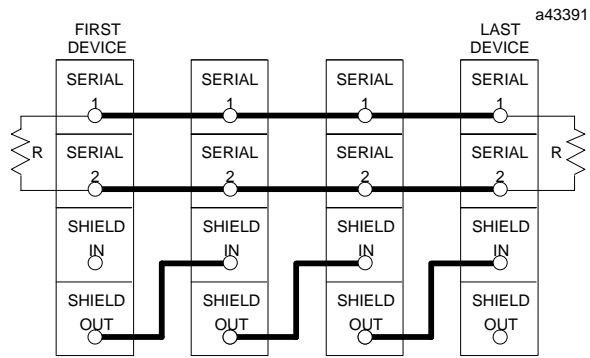


Figure 8-2. Genius Bus Wiring Schematic

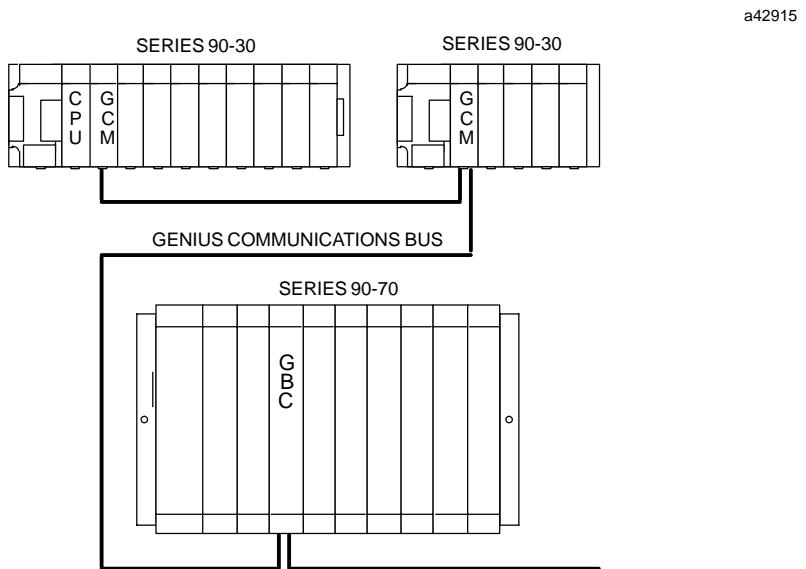


Figure 8-3. Example of Genius Communications Network

GCM Documentation

For detailed information on the Genius Communications Module, including installation instructions, refer to GFK-0412, the *Series 90-30 Genius Communications Module User's Manual*.