

Appendix B

Comparison of the GCM and GCM+

This appendix summarizes the basic differences between the Genius Communications Module (GCM) and the Enhanced Genius Communications Module (GCM+). Both types of module can be used on the same bus, but they cannot be installed in the same PLC. The two types of module can exchange global data with each other.

	GCM	GCM+
ModuleNumber	IC693CMM301	IC693CMM302
Quantity per 90-30 PLC	1	3
GlobalDataLengths: transmitted received	up to 256 bits total global data, transmitted and received	up to 128 bytes up to 128 bytes each from up to 31 other devices
Number of Other Global Data Devices	7	31
Bus Addresses (SBAs) for Global Data	16 to 23 only	0-31
Memory Types for Global Data	%G only	%G, %I, %Q, %AI, %AQ, %R
Diagnostics LEDs Software diagnostics	OK, COMM none -	OK, COMM status bits, Fault Reports to Series 90-70 PLC
Ability to pass to host PLC a partial global data message only?	no	yes
Host PLC Scan Impact	slower transfers restricted maximum data	faster transfers potentially more data
Host PLC Program	required	not needed for certain configura- tions
Data Default	no option	may default to 0
Series Six Interface	fixed	selectable