



### Networks and Distributed I/O Systems

The Series 90-30 features a variety of communications options for distributed control and/or I/O. Choose from Ethernet EGD, Profibus-DP, Genius, DeviceNet, Interbus-S, Series 90 Protocol (SNP) and RTU modules. These communication modules are easy to install and quick to configure.

	IC693PBM200	IC693PBS201	IC693BEM331
<b>Product Name</b>	<b>Communications Module, Profibus-DP Module (Master)</b>	<b>Communications Module, Profibus-DP Module (Slave)</b>	<b>Series 90-30 I/O Bus Module, Genius Bus Controller</b>
<b>Lifecycle Status</b>	Active	Active	Active
<b>Module Type</b>	Profibus-DP Master	Profibus-DP Slave	Genius Bus Controller
<b>Protocol Support</b>	Profibus DP	Profibus DP	Genius
<b>Entity Type</b>	Master	Slave	Master
<b>Bus Speed</b>	12Mbaud	12Mbaud	153.6Kbaud
<b>Network Distance</b>	Baud Rate Dependent. Supports all standard data rates (9.6 kBit/s, 19.2 kBit/s, 93.75 kBit/s, 187.5 kBit/s, 500 kBit/s, 1.5 MBit/s, 3 MBit/s, 6 MBit/s and 12 MBit/s)	Baud Rate Dependent. Supports all standard data rates (9.6 kBit/s, 19.2 kBit/s, 93.75 kBit/s, 187.5 kBit/s, 500 kBit/s, 1.5 MBit/s, 3 MBit/s, 6 MBit/s and 12 MBit/s)	7500 feet (2286 meters) at 38.4 Kbaud; 4500 feet (1371 meters) at 76.8 Kbaud; 3500 feet (1066 meters) at 153.6 Kbaud extended; 2000 feet (609 meters) at 153.6 Kbaud standard. Maximum length at each baud rate also depends on cable type.
<b>Bus Diagnostics</b>	Supported	Supported	Supported
<b>Number of Drops Supported</b>	125 Slaves	One	32
<b>Message Size</b>	244 bytes of input and 244 bytes of output for each slave. Not to exceed 3584 bytes input and 3584 bytes outputs total for the system.	244 bytes of input and 244 bytes of output	255 bytes
<b>Internal Power Used</b>	450 @ 5 VDC	450 @ 5 VDC	300 mA @ 5 VDC



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	IC693DNM200	IC693DNS201	IC693CMM302
<b>Product Name</b>	Series 90-30 Communications Module, DeviceNet, Master	Series 90-30 Communications Module, DeviceNet, Slave	Series 90-30 Enhanced Genius Communications Module
<b>Lifecycle Status</b>	Active	Active	Active
<b>Module Type</b>	DeviceNet Master	DeviceNet Slave	Genius Peer to Peer
<b>Protocol Support</b>	DeviceNet	DeviceNet	N/A
<b>Entity Type</b>	Master	Slave	Peer-to-Peer
<b>Bus Speed</b>	500Kbaud	500Kbaud	153.6Kbaud
<b>Network Distance</b>	500Kbaud 100 meters to 125Kbaud 500 meters. Maximum length at each baud rate also depends on cable type.	500Kbaud 100 meters to 125Kbaud 500 meters. Maximum length at each baud rate also depends on cable type.	7500 feet (2286 meters) at 38.4 Kbaud; 4500 feet (1371 meters) at 76.8 Kbaud; 3500 feet (1066 meters) at 153.6 Kbaud extended; 2000 feet (609 meters) at 153.6 Kbaud standard. Maximum length at each baud rate also depends on cable type.
<b>Bus Diagnostics</b>	Supported	Supported	N/A
<b>Number of Drops Supported</b>	64	N/A	N/A
<b>Message Size</b>	3972 bytes Input and 3972 bytes Output	255 bytes In and 255 bytes Out	N/A
<b>Internal Power Used</b>	450 @ 5 VDC	450 @ 5 VDC	300 mA @ 5 VDC