IC693C
PU364
GE
Fanuc

Series 90-30

Ethernet Operational Notes

Subject	Description
Time-out During RUN-mode Store	During a Run Mode Program Store of a large program block (greater than 14K bytes), the Ethernet Interface may time out, causing communications to fail. Changing the Communication Window to Run-to-Completion mode, or storing the program in STOP mode, will allow the store to complete successfully.

Documentation

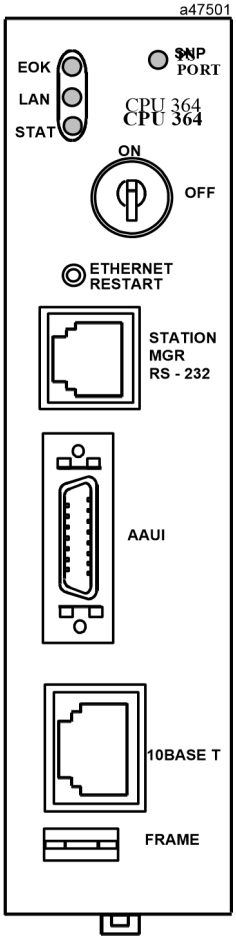
Instructions for using the IC693CPU364 module can be found in the latest version of the following manuals:

Series 90-30 Installation and Hardware Manual, GFK-0356

Series 90-30/20/Micro CPU Instruction Set Reference Manual, GFK-0467

TCP/IP Ethernet Communications for the Series 90 PLC User's Manual, GFK-1541

TCP/IP Ethernet Communications for the Series 90 Station Manager Manual, GFK-1186

IC693CPU364 Data

CPU Type	Single slot CPU module with embedded Ethernet Interface
Total Baseplates per System	8 (CPU baseplate + 7 expansion and/or remote)
Load Required from Power Supply	1.1 Amps from +5 VDC supply
Processor Speed	25 MegaHertz
Processor Type	80386EX
Ethernet fuse, replaceable	2.69x2.69x6.1 mm, 125V, 1A, slow acting
Operating temperature	0 to 60 degrees C (32 to 140 degrees F) ambient
Typical Scan Rate	.22 milliseconds per 1K of logic (Boolean contacts)
User Memory (total)	240K (245,760) Bytes. Note: Actual size of available user program memory depends on the amounts configured for the %R, %AI, and %AQ configurable word memory types (described below).
Discrete Input Points - %I	2,048
Discrete Output Points - %Q	2,048
Discrete Global Memory - %G	1,280 bits
Internal Coils - %M	4,096 bits
Output (Temporary) Coils - %T	256 bits
System Status References - %S	128 bits (%S, %SA, %SB, %SC - 32 bits each)
Register Memory - %R	Configurable in 128 word increments, from 128 to 16,384 words with DOS programmer, and from 128 to 32,640 words with Windows programmer Ver. 2.2 or VersaPro 1.0 or later.
Analog Inputs - %AI	Configurable in 128 word increments, from 128 to 8,192 words with DOS programmer, and from 128 to 32,640 words with Windows programmer Ver 2.2 when available or VersaPro 1.0 or later.
Analog Outputs - %AQ	Configurable in 128 word increments, from 128 to 8,192 words with DOS programmer, and from 128 to 32,640 words with Windows programmer Ver. 2.2 when available or VersaPro 1.0 or later.
System Registers (for reference table viewing only; cannot be referenced in user logic program)	28 words (%SR)
Timers/Counters	>2,000 (depends on available user memory)
Shift Registers	Yes
Built-in Serial Ports	1 (uses connector on PLC Power Supply). Supports SNP/SNPX. Requires option modules for RTU and CCM.
Communications	*Ethernet* (internal) – AAUI or 10Base T. AAUI requires external transceiver. 10Base T is direct. *Ethernet* (additional) – Supports Ethernet option modules. *LAN* – Requires option modules for Genius, Profibus, FIP.
Override	Yes
Battery Backed Clock	Yes
Interrupt Support	Supports the periodic subroutine feature.
Type of Memory Storage	RAM and Flash
PCM/CCM Compatibility	Yes
Floating Point Math Support	Yes, firmware-based
Notes: On earlier modules, the LED labeled “PS PORT” may read “SNP,” and/or the port labeled “STATION MGR RS-232” may read “PORT 1 RS-232”; these are labeling changes only - the functionality was not changed.