

LT-7188EG

Embedded Ethernet Controller, Programmable in ISaGRAF IEC-1131 Development Suite!

Specifications & Additional Information

LT-7188EG	
Power requirements	10 to 30VDC (unregulated) , I-7188EG:2W, I-7188EGD:3W
Protection	Built-in power protection & network protection circuit
temperature	Operating: -25°C to +75°C Storage: -30°C to +85°C
Humidity	5 to 95% (non-condensed)
CPU	80188 40MHz, or compatible
Watchdog timer	Yes
Real time clock	Gives hour, minute, sec, date of week, date of month, month & year (1980 to 2079)
SRAM	512K bytes
FLASH Memory	512K bytes, Erase unit is 64K bytes, 100,000 erase/write cycles
NVSRAM	31 bytes, battery backup, data valid up to 10 years
EEPROM	2048 bytes, retention > 100 years. 1,000,000 erase/write cycles
Display for LT-7188EGD	Five 7-Seg. Led on the front. It can display message & value.
Expansion I/O bus	One optional Xxxx series I/O board can be plugged inside the I-7188EG / 7188EGD.
NET ID	Set by software, 1 to 255
COM1	RS232 TXD,RXD,GND Speed: 115200 bps max. Program download port.
COM2	RS485: D+, D-, 115200 bps max. Self-tuner ASIC inside, Program download port.
Ethernet	10M bps, NE2000 compatible, 10 BaseT, Program download port.
ISaGRAF Version 3	IEC61131-3 standard. Languages: LD, ST, FBD, SFC, IL & FC
Pulse Width	All Xxxx series D/O boards support PWM output. 8 channels

Modulation output	max. for one controller. 500Hz max. for Off=1 & On=1 ms Output square curve: Off: 1 to 32767 ms, On: 1 to 32767 ms
Parallel D/I counter	All Xxxx series D/I boards support D/I counter. 8 ch. max. for one controller. Counter value: 32 bit 500Hz max. Min. pules width > 1ms
Remote D/I counter	All remote I-7000 & I-87K D/I modules support counters. 100Hz max. value: 0 to 65535
Remote High speed counter	Optional i-87082:100kHz max. ,32 bit
Modbus serial protocol	COM1 default supports Modbus RTU slave protocol for connecting ISaGRAF, PC/HMI/OPC Server & MMI panels.
Modbus TCP/IP protocol	Ethernet prot supports Modbus TCP/IP slave protocol for connecting ISaGRAF & PC/HMI.
Remote I/O	One of COM2 (or COM3:RS485 if found) supports I-7000 I/O modules & (LT-87K base + LT-87K serial I/O boards) as remote I/O. Max. 64 I/O module for one controller
Modbus master protocol	One of COM1 or COM2 (or COM3 if found) supports Modbus master protocol to connect to other Modbus slave I/O devices
Fbus	built in COM2 port to exchange data between ICP DAS's ISaGRAF controllers.
SMS: Short Message Servise	One of (COM3:RS232 or COM4:RS232 if found) can link to a GSM modem to support SMS. User can request data/control the controller by cellular phone. The controller can also send data & alarms to user's cellular phone. Optional GSM modems: M1206 or GM29 (GSM 900/1800)
User defined protocol	User can write his own protocol applied at COM1, COM2 & (COM3 to COM8 if found) by serial communication function blocks.
MMICON / LCD	One of (COM3:RS232 if fonnd) supports ICP DAS's MMICON. The MMICON is featured with a 240 x 64 dot LCD and a 4 x 4 Keyboard. User can use it to display picture, string, integer, float, and input a character, string, integer and float.
Redundant Bus7000	Two ISaGRAF controllers can link to remote LT-7000 & LT-87K I/O modules at the same time. Only one controller is active to control these remote I/Os. If one is dead, the other one will take over the control of remote I/Os.
	LT-7188EG / 7188EGD can support up to 1024 retain variables with a X607 / X608 plug in the only expansion I/O slot. Data can be stored in X607/X608, and then PC can load these data via COM1or ethernet. PC can also download pre-defined data to the X607/X608. Optional: X607: 128kbytes, X608: 512kbytes
Mount	Din Rail Mount