

## Performance Comparison Table 1 of ISaGRAF PACs

PACs	CPU	Normal running Speed (Normal PLC scan-time)	Normal Speed for floating point calculation (scan-time)	Ethernet	ISaGRAF code size limitation (bytes)	Memory for running program (bytes)
<b>iP-8447</b> <b>iP-8847</b>	80186- <b>80M</b> Hz or compatible	About <b>4</b> (2 ~25ms)	About <b>0.8</b> (10~125ms)	<b>2</b> ports <b>10/100</b> Mbps	64K	About <b>768K</b>
<b>I-8437-80</b> <b>I-8837-80</b>	80186- <b>80M</b> Hz or compatible	About <b>4</b> (2 ~25ms)	About <b>0.8</b> (10~125ms)	1 port 10 Mbps	64K	About 512K
<b>I-8437</b> <b>I-8837</b>	80188-40M Hz or compatible	About 1 (5 ~100ms)	About <b>0.2</b> (25~500ms)	1 port 10 Mbps	64K	About 512K
<b>I-8417</b> <b>I-8817</b>	80188-40M Hz or compatible	About 1 (5 ~100ms)	About <b>0.2</b> (25~500ms)	No	64K	About 512K
<b>μPAC-7186EG</b>	80186- <b>80M</b> Hz or compatible	About <b>4</b> (2 ~5ms)	About <b>0.8</b> (10~125ms)	1 port <b>10/100</b> Mbps	64K	About <b>640K</b>
<b>I-7188EG</b>	80188-40M Hz or compatible	About 1 (5 ~100ms)	About <b>0.2</b> (25~500ms)	1 port 10 Mbps	64K	About 512K
<b>I-7188XG</b>	80188-40M Hz or compatible	About 1 (5 ~100ms)	About <b>0.2</b> (25~500ms)	No	64K	About 512K
<b>W-8347</b> <b>W-8747</b>	Strong-ARM <b>206</b> MHz or compatible	About <b>10~20</b> (3 ~15ms)	About <b>10~20</b> (3 ~15ms)	<b>2</b> ports <b>10/100</b> Mbps	<b>1M</b>	About <b>20~40M</b>
<b>W-8337</b> <b>W-8737</b>	Strong-ARM 206 MHz or compatible	About 10~20 (3 ~15ms)	About 10~20 (3 ~15ms)	1 port <b>10</b> Mbps	1M	About 20~40M

Note:

I-8x37 / W-8x37 has phased out, please select compatible I-8x37-80 / W-8x47.

## Performance Comparison Table 2

PACs	μPAC Series			iPAC Series			WinCon Series
	I-7188 XG	I-7188 EG	μPAC-7186 EG	I-8417 / I-8817	I-8x37 / I-8x37 -80 *1	iPAC-8x47 *2	W-8347/8747 W-8337/8737
Support Ethernet I/O (I-8KE4-MTCP I-8KE8-MTCP)	NO			NO			Yes
Send E-mail (file attached)	NO	Yes *3		NO	Yes		Yes
Max. amount for linking I-7K/ 87K Remote I/O module (Only 1 port)	64						255 (COM3)
	(COM2, 3)		(COM3, 4)		(COM 2, 3, 4)		
Modbus Master Function Block Max. amount	64 (total)	128 (total)		64 (total)	128 (total)		256 (per port)
Available Modbus Master COM Port (Max. mount) *4	(2 ports)						(10 ports)
	COM 2, 3	COM 1, 2, 3		COM 1, 3, 4, 5		COM 1~5	COM 2, 3, 5~14
Available Modbus Slave COM Port (Max. mount) *4	(2 ports)						(5 ports)
	COM1 or 2/3			COM 1, 2	COM 1, 3	COM 1 or 2/3	COM 2 or 3, 5~8
Modbus TCP/IP Connections	0	4	6	0	4	6	32 *5
Modbus Address Range	1~4095			1~4095			1~8191
Data Exchange	Fbus	Fbus, Ebus		Fbus	Fbus, Ebus		Ebus
Support FRnet I/O	No			No		Yes *6	Yes *6
Support CAN / CANopen	No		Yes *7	No		Yes *7	Yes *7
Support VW Sensor	No			Yes			Yes
Support Redundant Ethernet Port	No			No		Yes *8	Yes *8
Support Mbus24r & mbus24r1 Function Block	No		Yes	No		Yes	Yes
Support New Redundant System	No			No			Yes *9

Annotations:

- \*1. I-8x37/I-8x37-80 represents the products of I-8437/ 8837/ 8437-80/ 8837-80.
- \*2. iPAC-8x47 represents the products of iP-8447/ 8847 that will be available about Q4, 2008.
- \*3.  $\mu$ PAC-7186EG has to use an extra X607/ 608 battery backup SRAM expansion card for sending E-mail with an attached file, or it can only send E-mail without attached file.
- \*4. I-8000's COM5~20 & W-8x47/ 8x37's COM5~14 resides at the I-8112/ 8114/ 8142/ 8144/ 8142i expansion modules ;

iPAC-8x47's COM5 ~ 20 resides at the I-8112iW/ 8114W/ 8114iW/ 8142iW/ 8144iW expansion modules (will be available about Q4, 2008.) ;

I-7188/  $\mu$ PAC-7186's COM3 ~ 8 resides at the X5xx X-board expansion boards.

- \*5. The W-8xx7 with driver version 4.02 or older version only supports 8 Modbus TCP/IP connections, while supports up to 32 Modbus TCP/IP connections since the version 4.03.

If the controller is WinCon-8347/ 8747 (two Ethernet ports), its OS image must update to the version released on July, 1, 2008 to ensure the network communications is correct.

Please refer to [www.icpdas.com](http://www.icpdas.com) > FAQ > Software > ISaGRAF > 095 for more information.

- \*6. iPAC-8x47 support Max. 4 pcs. of I-8172W (Max ch. 1024 D/I and 1024 D/O)  
W-8x47/ 8x37 support Max. 7 pcs. of I-8172W (Max ch.1792 D/I and 1792 D/O).
- \*7.  $\mu$ PAC-7186EG, iPAC-8x47 and W-8xx7 supports the I-7530 (RS-232 to CAN converter) to connect to other CAN / CANopen devices.
- \*8. If the cable of one Ethernet port is broken or damaged, the PC/HMI can communicate with the other Ethernet port by Modbus TCP/IP protocol.
- \*9. Only the W-8347 / 8747 supports new redundant system. The W-8x37 doesn't support it.