



EMC Test Report

Product Type : ICP DAS IO System
Applicant : ICP DAS CO., LTD.
Address : No. 111, Guangfu N. Rd., Hukou Township, Hsinchu County 30351, Taiwan, R.O.C.
Trade Name : ICP DAS
Model Number : FSM-6228G System
Test Specification : EN 55022: 2010 +AC:2011 / Class A
EN 55024: 2010
EN 61000-3-2: 2006 +A1:2009 + A2: 2009 / Class A
EN 61000-3-3: 2013
EN 61000-4-2:2009
EN 61000-4-3:2006 +A1:2008 +A2:2010
EN 61000-4-4:2012
EN 61000-4-5:2006
EN 61000-4-6:2009
EN 61000-4-8:2010
EN 61000-4-11:2004

Receive Date : Nov. 06, 2014
Test Period : Nov. 10 ~ 20, 2014
Issue Date : Dec. 01, 2014

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.
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Taiwan Accreditation Foundation accreditation number: 1330

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Verification of Compliance

Issued Date: 12/01/2014

Product Type : ICP DAS IO System
Applicant : ICP DAS CO., LTD.
Address : No. 111, Guangfu N. Rd., Hukou Township, Hsinchu County
30351, Taiwan, R.O.C.

Trade Name : ICP DAS
Model Number : FSM-6228G System
EUT Rated Voltage : AC 100-250V, 50-60Hz, 2.0A
Test Voltage : 230 Vac / 50 Hz
Applicable : EN 55022:2010 +AC:2011 / Class A
Standard : EN 55024:2010
EN 61000-3-2:2006+A1:2009+A2:2009 / Class A
EN 61000-3-3:2013
EN 61000-4-2:2009
EN 61000-4-3:2006 +A1:2008 +A2:2010
EN 61000-4-4:2012
EN 61000-4-5:2006
EN 61000-4-6:2009
EN 61000-4-8:2010
EN 61000-4-11:2004

Test Result : Complied
Performing Lab. : A Test Lab Techno Corp.

No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.

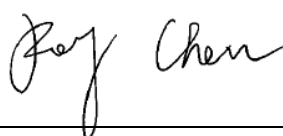
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<http://www.atl-lab.com.tw/e-index.htm>

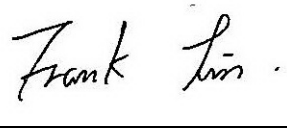


The above equipment has been tested by A Test Lab Techno Corp., and found compliance with the requirements set forth in the Electromagnetic Compatibility Directive 2004/108/EC and technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By : 

(Manager)

(Roy Chen)

Reviewed By : 

(Testing Engineer)

(Frank Lin)

2 EUT Description

Product Type	:	ICP DAS IO System
Trade Name	:	ICP DAS
Model Number	:	FSM-6228G System
Applicant	:	ICP DAS CO., LTD. No. 111, Guangfu N. Rd., Hukou Township, Hsinchu County 30351, Taiwan, R.O.C.
Manufacturer	:	ICP DAS CO., LTD. No. 111, Guangfu N. Rd., Hukou Township, Hsinchu County 30351, Taiwan, R.O.C.

I/O Port Description :

I/O Port Types	Q'TY	Test Description
1). AC Power Port	1	Connected to EUT
2). AC Power Port	1	Connected to AC input
3). LAN Port	1	Connected to PC
4). USB Port	1	Connected to PC
5). LAN Port	1	Connected to EUT
6). DC Power Port	1	Connected to EUT

Feature of Equipment under Test :

The model listed below is series model to FSM-6228G System.

Main	Software	Diversity	Mode 1
WF-2017	---	8-channel Differential/16-channel Single-Ended Analog Input Wi-Fi I/O Module	V
WF-2051	---	Wi-Fi I/O Module with 16-channel Isolated Digital Input	V
WF-2042	---	Wi-Fi I/O Module with 16-channel Isolated Digital Output	V
WF-2026	---	5-channel Analog Input, 2-channel Analog Output, 2-channel Digital Input and 3-channel Digital Output Wi-Fi I/O Module	V
WF-2019	---	10-channel Universal Analog Input Wi-Fi I/O Module	V
WF-2019/S	---	10-channel Universal Analog Input Wi-Fi I/O Module with DB-1820 Daughter Board	
RMV-531	---	Intelligent Multiport Serial to 2G/3G Gateway	V
GRP-520	---	3G Gateway	V
RMV-514	---	Intelligent Multiport Serial to GPRS Gateway with I/O	V
RMV-512	---	Intelligent Multiport Serial to GPRS Gateway with I/O	
SC-4104-W1	---	1-channel AC Digital Input and 4-channel Relay Output Lighting Control Module	V
I-7043	---	16-channel Non-isolated Digital Output Module using the DCON Protocol	V
I-7043-X	---	16-channel Non-isolated Digital Output Module using the DCON Protocol (X : The Cover is mean any color)	
I-7043D	---	I-7043 with LED Display	
I-7043D-X	---	I-7043 with LED Display (X : The Cover is mean any color)	
M-7043-X	---	16-channel Non-isolated Digital Output Module using the DCON and Modbus Protocol (X : The Cover is mean any color)	
M-7043	---	16-channel Non-isolated Digital Output Module using the DCON and Modbus Protocol	
M-7043D-X	---	M-7043 with LED Display (X : The Cover is mean any color)	
M-7043D	---	M-7043 with LED Display	
WISE-7901	MiniOS7	User-defined I/O Expansion PoE Module	
WISE-7901D	MiniOS7	User-defined I/O Expansion PoE Module with LED Display	V
uPAC-7186PEX	MiniOS7	Palm-size uPAC with PoE	
uPAC-7186PEXD	MiniOS7	uPAC-7186PEX with 7 segment LED display	
uPAC-7186PEX-MTCP	MiniOS7	uPAC-7186PEX with default Modbus/TCP firmware	
uPAC-7186PEXD-MTCP	MiniOS7	uPAC-7186PEXD with default Modbus/TCP firmware	
PDS-720	MiniOS7	Programmable Device Server with 1 RS-232 port and 1 RS-485 port Includes One CA-0910 Cable	

Main	Software	Diversity	Mode 1
PDS-720D	MiniOS7	Programmable Device Server with 1 RS-232 port, 1 RS-485 port and an LED Display Includes One CA-0910 Cable	
PPDS-720-MTCP	MiniOS7	Programmable Device Server with PoE, Modbus Gateway, 1 RS-232 port and 1 RS-485 port Includes One CA-0910 Cable	
PPDS-720D-MTCP	MiniOS7	Programmable Device Server with PoE, Modbus Gateway, 1 RS-232 port, 1 RS-485 port and an LED Display Includes One CA-0910 Cable	
MDC-711	MiniOS7	Modbus Data Concentrator	
MDC-714	MiniOS7	Modbus Data Concentrator with 4-port RS-485	
M2M-710D	MiniOS7	Remote maintenance Ethernet Device Terminal Unit	
I-7590	---	RS-232 / RS-422 / RS-485 to M-Bus Converter	V
USB-2045	---	16 Source-type Digital Output Channels with Overload Protection	V
USB-2055	---	8-channel Isolated Digital Input and 8-channel Isolated Digital Output	V
USB-2051	---	16-channel Isolated Digital Input Module	V
USB-2060	---	6-channel Isolated Digital Input and 6-channel Relay Output Module	V
uPAC-5201D-FD	MiniOS7	uPAC-5000 with LAN and 2G (GPRS) and 256 MB Flash	
uPAC-5201-FD	MiniOS7	uPAC-5000 with LAN and 2G (GPRS) and 256 MB Flash	V
uPAC-5201D	MiniOS7	uPAC-5000 with LAN and 2G (GPRS)	
uPAC-5201	MiniOS7	uPAC-5000 with LAN and 2G (GPRS)	
uPAC-5202D-FD	MiniOS7	uPAC-5000 with LAN and 2G (GPRS) and 256 MB Flash (ISaGRAF)	
uPAC-5202-FD	MiniOS7	uPAC-5000 with LAN and 2G (GPRS) and 256 MB Flash (ISaGRAF)	
uPAC-5202D	MiniOS7	uPAC-5000 with LAN and 2G (GPRS) (ISaGRAF)	
uPAC-5202	MiniOS7	uPAC-5000 with LAN and 2G (GPRS) (ISaGRAF)	
uPAC-5207D	MiniOS7	uPAC-5000 with LAN and 2G (GPRS) (ISaGRAF)	
uPAC-5207	MiniOS7	uPAC-5000 with LAN and 2G (GPRS) (ISaGRAF)	
uPAC-5002	MiniOS7	uPAC-5000 with LAN	
uPAC-5002D	MiniOS7	uPAC-5000 with LAN	
uPAC-5002-FD	MiniOS7	uPAC-5000 with LAN and 256 MB Flash	
uPAC-5002D-FD	MiniOS7	uPAC-5000 with LAN and 256 MB Flash	
uPAC-5002-SM	MiniOS7	uPAC-5000 with LAN	
uPAC-5002D-SM	MiniOS7	uPAC-5000 with LAN	
uPAC-5007	MiniOS7	ISaGRAF based μ PAC-5000 with LAN	
uPAC-5007D	MiniOS7	ISaGRAF based μ PAC-5000 with LAN	
uPAC-5001	MiniOS7	uPAC-5000 with LAN	

Main	Software	Diversity	Mode 1
uPAC-5001D	MiniOS7	uPAC-5000 with LAN	
uPAC-5001-FD	MiniOS7	uPAC-5000 with LAN and 256 MB Flash	
uPAC-5001D-FD	MiniOS7	uPAC-5000 with LAN and 256 MB Flash	
ECAT-2045	---	EtherCAT Slave I/O Module with Isolated 16-ch Digital Outputs	V
ECAT-2055	---	EtherCAT Slave I/O Module with Isolated 8-ch DO and 8-ch DI	V
ECAT-2051	---	EtherCAT Slave I/O Module with Isolated 16-ch Digital Inputs	V
PDS-842	---	Programmable Device Server with 4 Expansion Slots	
PDS-882	---	Programmable Device Server with 8 Expansion Slots	V
I-8040W-X	---	32-channel Isolated Digital Input Module (X : The Cover is mean any color)	
I-8040W	---	32-channel Isolated Digital Input Module	
I-8040W-A1-X	---	32-channel Isolated Digital Input Module (X : The Cover is mean any color)	
I-8040W-A1	---	32-channel Isolated Digital Input Module	
I-8040W-A2-X	---	32-channel Isolated Digital Input Module (X : The Cover is mean any color)	
I-8040W-A2	---	32-channel Isolated Digital Input Module	V
I-8112-X	---	2-Port RS-232 Module (X : The Cover is mean any color)	
I-8112	---	2-Port RS-232 Module	V
I-8080-X	---	4/8-channel Counter/Frequency Module (X : The Cover is mean any color)	
I-8080	---	4/8-channel Counter/Frequency Module	V
I-8084W-X	---	4/8-channel Counter/Frequency/Encoder Module (X : The Cover is mean any color)	
I-8084W	---	4/8-channel Counter/Frequency/Encoder Module	V
I-8088W-X	---	8-channel PWM Output And 8-Channel isolated DI Module (X : The Cover is mean any color)	
I-8088W	---	8-channel PWM Output And 8-Channel isolated DI Module	V
I-8090-X	---	3-axis Encoder Module (X : The Cover is mean any color)	
I-8090	---	3-axis Encoder Module	V
I-8091-X	---	2-axis Stepping/Servo Motor Control Card (X : The Cover is mean any color)	
I-8091	---	2-axis Stepping/Servo Motor Control Card	V
PFN-2052	---	PROFINET I/O Module (Isolated 8-ch DI)	V
PFN-2053	---	PROFINET I/O Module (Dry contact Non-Isolated 16-ch DI)	V
EIP-2017	---	Isolated 8-ch DIFF or 16-ch SE AI EtherNet/IP Module	V
EIP-2019	---	Isolated 8-ch Thermocouple AI EtherNet/IP Module	V
EIP-2019/S	---	Isolated 8-ch Thermocouple AI EtherNet/IP Module with CN-1824 Daughter Board	

Main	Software	Diversity	Mode 1
FSM-6228G	---	24-port 10/100/1000Base-T + 4 (100/1G) SFP L2 Managed Switch	V
FSM-6228G-DC	---	24-port 10/100/1000Base-T + 4 (100/1G) SFP L2 Managed Switch (Dual Power, DC/AC Input)	
FSM-6228G-AC	---	24-port 10/100/1000Base-T + 4 (100/1G) SFP L2 Managed Switch (AC Input)	
PPDS-741-IP67	---	Programmable Device Server with 1 RS-232 port, 3 RS-485 ports, PoE and IP67 Casing	
PPDS-742-IP67	---	Programmable Device Server with 2 RS-232 ports, 2 RS-485 ports, PoE and IP67 Casing	V
PPDS-743-IP67	---	Programmable Device Server with 3 RS-232 ports, 1 RS-485 port, PoE and IP67 Casing	

Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Keyboard	DELL	SK-8110	07N2443884232J7Q39	Power by PC
(2)	Mouse	DELL	MO71KC	511091717	Power by PC
(3)	Monitor	DELL	U3011t	CN-0PH5NY-74445-1A 8-092L	Non-Shielded, 1.8m
(4)	PC	ICP DAS	BTO-AS-GI945GC	N/A	Non-Shielded, 1.8m
※ PC Keypart information					
Main		Software	Diversity		Mode 1
(4)-1	PCI-1802LU	---	Universal PCI, 32-ch, 12-bit, 330 kS/s Low Gain Multi-function DAQ Board (8 K word FIFO) Includes one CA-4002 D-Sub connector.		V
(4)-2	PCI-1802HU	---	Universal PCI, 2-ch, 12-bit, 40 kS/s High Gain Multi-function DAQ Board (8 K word FIFO) Includes one CA-4002 D-Sub connector		
(4)-3	PCI-1802HU/S	---	PCI-1802HU CR with DB-1825 daughter board, Cable Includes one CA-3710 D-Sub cable.		
(4)-4	PCI-1802LU/S	---	PCI-1802LU CR with DB-1825 daughter board, Cable Includes one CA-3710 D-Sub cable.		
(4)-5	VXC-114iAU	---	Universal PCI, Serial Communication Board with 4 Isolated RS-232 ports Includes One CA-4002 Connector		V
(4)-6	VXC-114iAU/D2	---	Universal PCI, Serial Communication Board with 4 Isolated RS-232 ports Includes One CA-9-3715D Cable		
(4)-7	PCI-1002HU	---	Universal PCI, 32-ch, 12-bit, 44 kS/s High Gain Multi-function DAQ Board Includes one CA-4002 D-Sub connector.		
(4)-8	PCI-1002HU/S	---	Universal PCI, PCI-1002HU with DB-1825 daughter board , Cable Includes one CA-3710 D-Sub cable.		
(4)-9	PCI-1002LU	---	Universal PCI, 32-ch, 12-bit, 110 kS/s Low Gain Multi-function DAQ Board Includes one CA-4002 D-Sub connector.		V
(4)-10	PCI-1002LU/S	---	Universal PCI, PCI-1002LU with DB-1825 daughter board, Cable Includes one CA-3710 D-Sub cable.		
(4)-11	PISO-DA4U	---	Universal PCI 4-channel isolated D/A board Includes one CA-4002 D-Sub connector.		
(4)-12	PISO-DA4U/S	---	PISO-DA4U with DN-37 Includes one CA-3710 D-Sub cable.		
(4)-13	PISO-DA8U	---	Universal PCI 8-channel isolated D/A board Includes one CA-4002 D-Sub connector.		
(4)-14	PISO-DA8U/S	---	PISO-DA8U with DN-37 Includes one CA-3710 D-Sub cable.		
(4)-15	PISO-DA16U	---	Universal PCI 16-channel isolated D/A board Includes one CA-4002 D-Sub connector.		V
(4)-16	PISO-DA16U/S	---	PISO-DA16U with DN-37 Includes one CA-3710 D-Sub cable.		

Support Unit					
Product		Manufacturer	Model Number	Serial Number	Power Cord
1.	Industrial Power Supply	ICP DAS	DP-1200	N/A	Non-Shielded, 1.7m with one core