



FCC 47 CFR PART 15 SUBPART B

Product Type : ICP DAS I/O Devices
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 : TP-5120
Test Specification : FCC 47 CFR PART 15 SUBPART B: Oct., 2013
ANSI C63.4: 2009
CISPR 22: 2008
Receive Date : Aug. 11, 2014
Test Period : Aug. 14 ~ 15, 2014
Issue Date : Sep. 01, 2014

Issue by

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Taiwan Accreditation Foundation accreditation number: 1330

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Verification of Compliance

Issued Date: 2014/09/01

Product Type : ICP DAS I/O Devices
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 : TP-5120
EUT Rated Voltage : AC 100-250V, 50-60Hz, 2.0A
Test Voltage : 120 Vac / 60 Hz
Applicable : FCC 47 CFR PART 15 SUBPART B: Oct., 2013
Standard : ANSI C63.4: 2009
CISPR 22: 2008

Test Result : Complied

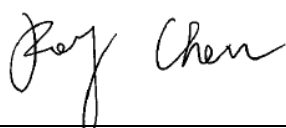
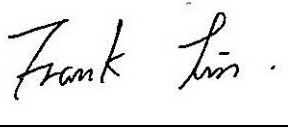
Performing Lab. : A Test Lab Techno Corp.
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<http://www.atl-lab.com.tw/e-index.htm>

The above equipment has been tested by A Test Lab Techno Corp., and found compliance with the requirements set forth in the 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 :  Reviewed By : 
(Manager) (Roy Chen) (Testing Engineer) (Frank Lin)

2 EUT Description

Product Type	:	ICP DAS I/O Devices
Trade Name	:	ICP DAS
Model Number	:	TP-5120
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). LAN Port	1	Connected to PC
2). USB Port	1	Connected to PC
3). AC Power Port	1	Connected to AC input
4). LAN Port	1	Connected to EUT
5). DC Power Port	1	Connected to EUT
6). D-SUB Port	1	Connected to PC

Feature of Equipment under Test :

The model listed below is series model to TP-5120.

Main	Software	Diversity	Mode 1
BNET-5310	---	Multi-function BACnet/IP module with 6 AI, 1 AO, 4 DI, and 4 DO	V
DGW-521	---	RS-232/RS-485/USB to DALI Gateway	V
DL-302	---	Remote CO2/Temperature/Humidity Data Logger with Safety Alarm	V
NSM-205GP	---	4+1G Combo Port Gigabit Unmanaged Ethernet Switch with 4 IEEE 802.3af/at PoE+ ports	V
NS-205R	---	Unmanaged 5-Port Industrial Ethernet switch	V
NS-205	---	Unmanaged 5-port Industrial Ethernet Switch	
I-7005	---	8-channel Thermistor Input and 6-channel Digital Output Module Module using the DCON Protocol	V
I-7005-X	---	8-channel Thermistor Input and 6-channel Digital Output Module Module using the DCON Protocol (X : The Cover is mean any color)	
M-7005-X	---	8-channel Thermistor Input and 6-channel Digital Output Module using the DCON and Modbus Protocol (X : The Cover is mean any color)	
I-7014D	---	1-CHANNE Transmitter Input with 7-segment LED Display using the DCON and Modbus Protocols	V
iP-8411	MiniOS7	Standard iPAC-8000 without Ethernet ports	
iP-8441	MiniOS7	Standard iPAC-8000 with 4 I/O Slots	V
iP-8441-FD	MiniOS7	Standard iPAC-8000 with 512 MB Flash	
iP-8417	MiniOS7	4 slots, Faster CPU, ISaGRAF based iPAC-8000	
iP-8447	MiniOS7	4 slots, Faster CPU, Dual Ethernet ISaGRAF based iPAC-8000	
iP-8418	MiniOS7	4 slots, Faster CPU, Win-GRAF based iPAC-8000	
iP-8448	MiniOS7	4 slots, Faster CPU, Dual Ethernet Win-GRAF based iPAC-8000	
iP-8441-MTCP	MiniOS7	4 slots I/O Expansion Unit with Modbus TCP protocol	
iP-8811	MiniOS7	Standard iPAC-8000 without Ethernet ports	
iP-8841	MiniOS7	Standard iPAC-8000 with 8 I/O Slots	V
iP-8841-FD	MiniOS7	Standard iPAC-8000 with 512 MB Flash	
iP-8817	MiniOS7	8 slots, Faster CPU, ISaGRAF based iPAC-8000	
iP-8847	MiniOS7	8 slots, Faster CPU, Dual Ethernet ISaGRAF based iPAC-8000	
iP-8818	MiniOS7	8 slots, Faster CPU, Dual Ethernet Win-GRAF based iPAC-8000	
iP-8848	MiniOS7	8 slots, Faster CPU, Dual Ethernet Win-GRAF based iPAC-8000	
iP-8841-MTCP	MiniOS7	8 slots I/O Expansion Unit with Modbus TCP protocol	
I-87005W	---	8-channel Thermistor Input and 8-channel Digital Output Module	V
I-87005W-X	---	8-channel Thermistor Input and 8-channel Digital Output Module (X : The Cover is mean any color)	

Main	Software	Diversity	Mode 1
I-87065	---	8-channel AC SSR Output Module	V
I-87065-X	---	8-channel AC SSR Output Module (X : The Cover is mean any color)	
I-87019RW	---	8-channel Universal Analog Input Module with High Voltage Protection	V
I-87019RW-X	---	8-channel Universal Analog Input Module with High Voltage Protection (X : The Cover is mean any color)	
I-87089W	---	1-channel Vibrating Wire Input Module	V
I-87089W-X	---	1-channel Vibrating Wire Input Module (X : The Cover is mean any color)	
I-87089W-X/S	---	8-channel Vibrating Wire Input Module Includes the I-87089W Module, a DN-1618UB Daughter Board and a DB-37 Male-Male D-sub cable 1M	
DN-1618UB	---	8-channel Vibrating Wire extended board	V
I-8024	---	4-channel 14-bit analog output module	V
I-8024-X	---	4-channel 14-bit analog output module (X : The Cover is mean any color)	
I-8024W	---	4-channel 14-bit analog output module	V
I-8024W-X	---	4-channel 14-bit analog output module (X : The Cover is mean any color)	
I-8026W	---	6-channel Analog Input, 2-channel Analog Output, 2-channel Digital Input and 2-channel Digital Output Module	V
I-8037	---	16-channel Isolated Open Collector Output Module	V
I-8037-X	---	16-channel Isolated Open Collector Output Module (X : The Cover is mean any color)	
I-8042	---	16-channel Isolated Digital Input & 16-channel Isolated Digital Output Module	V
I-8042-X	---	16-channel Isolated Digital Input & 16-channel Isolated Digital Output Module (X : The Cover is mean any color)	
I-8042W	---	16-channel Isolated Digital Input & 16-channel Isolated Digital Output Module	V
I-8042W-X	---	16-channel Isolated Digital Input & 16-channel Isolated Digital Output Module (X : The Cover is mean any color)	
I-8048W	---	8-channel Digital Input with Interrupt Module	V
I-8048W-X	---	8-channel Digital Input with Interrupt Module (X : The Cover is mean any color)	
I-8048	---	8-channel Digital Input with Interrupt Module	V
I-8048-X	---	8-channel Digital Input with Interrupt Module (X : The Cover is mean any color)	
PM-350	---	Multifunction Power Meter with THD	V
PM-101	---	Single Phase Electronic DIN Rail Meter	V

Main	Software	Diversity	Mode 1
PDS-720	---	Programmable Device Server with 1 RS-232 port and 1 RS-485 port Includes One CA-0910 Cable	
PDS-720D	---	Programmable Device Server with 1 RS-232 port, 1 RS-485 port and an LED Display Includes One CA-0910 Cable	V
PPDS-720-MTCP	---	Programmable Device Server with PoE, Modbus Gateway, 1 RS-232 port and 1 RS-485 port Includes One CA-0910 Cable	
PPDS-720D-MTCP	---	Programmable Device Server with PoE, Modbus Gateway, 1 RS-232 port, 1 RS-485 port and an LED Display Includes One CA-0910 Cable	
PDS-755	---	Programmable Device Server with 1 RS-232 port and 4 RS-485 ports Includes One CA-0910 Cable	
PDSM-755	---	PDS-755 CR with Metal Case	
PDS-755D	---	Programmable Device Server with 1 RS-232 port, 4 RS-485 ports and an LED Display Includes One CA-0910 Cable	V
PDSM-755D	---	PDS-755D CR with Metal Case	
PPDS-755-MTCP	---	Programmable Device Server with PoE, Modbus Gateway, 1 RS-232 port and 4 RS-485 ports Includes One CA-0910 Cable	
PPDSM-755-MTCP	---	PPDS-755-MTCP CR with Metal Case	
PPDS-755D-MTCP	---	Programmable Device Server with PoE, Modbus Gateway, 1 RS-232 port, 4 RS-485 ports and an LED Display Includes One CA-0910 Cable	
PPDSM-755D-MTCP	---	PPDS-755D-MTCP CR with Metal Case	
PDS-721	---	Programmable Device Server with 1 RS-232 port and 1 RS-485 port Includes One CA-0910 Cable	
PDSM-721	---	PDS-721 CR with Metal Case	
PDS-721D	---	Programmable Device Server with 1 RS-232 port , 1 RS-485 port and an LED Display Includes One CA-0910 Cable	V
PDSM-721D	---	PDS-721D CR with Metal Case	
PPDS-721-MTCP	---	Programmable Device Server with PoE, Modbus Gateway, 1 RS-232 port and 1 RS-485 port Includes One CA-0910 Cable	
PPDSM-721-MTCP	---	PPDSM-721-MTCP CR with Metal Case	
PPDS-721D-MTCP	---	Programmable Device Server with PoE, Modbus Gateway, 1 RS-232 port, 1 RS-485 port and an LED Display Includes One CA-0910 Cable	
PPDSM-721D-MTCP	---	PPDSM-721D-MTCP CR with Metal Case	
tM-AD4P2C2	---	4-Channel Isolated Analog Input and 2-channel Isolated Digital Input and 2-channel Isolated Digital Output Module	V
tM-P4C4	---	4-channel Isolation Digital Input and 4-channel Isolation Digital Output Module	V
tM-P4A4	---	4-channel Isolation Digital Input and 4-channel Source-type Isolated Digital Output Module	V

Main	Software	Diversity	Mode 1
tM-P3POR3	---	3-channel Isolated Digital Input and 3-channel PhotoMOS Relay Output Module	V
tM-C8	---	8-channel Isolation Digital Output Module	V
tM-P8	---	8-channel Isolation Digital Input Module	V
tM-AD8C	---	8-channel Isolation Current Input Module	V
tM-AD8	---	8-channel Isolation Analog Input Module with High Voltage Protection	V
tM-AD5C	---	5-channel Isolation Current Input Module	V
tM-AD5	---	5-channel Isolation Analog Input Module with High Voltage Protection	V
tM-SG4	---	RS-485 Pull-high/Pull-low and Termination Resistor Module	V
tET-P2R2	---	Tiny Ethernet module with 2-ch DI (Wet Contact) and 2-ch Form-A relay	V
tPET-P2R2	---	Tiny Ethernet module with PoE, 2-ch DI (Wet Contact) and 2-ch Form-A relay	
TP-5120	---	12.1" (800 x 600) resistive touch panel monitor with RS-232 or USB interface Accessories: Power supply, VGA cable, RS-232 cable, USB cable, Mounting clamps and screws	V
TP-5120/NP	---	TP-5120 without Power supply	

Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Keyboard	DELL	SK-8110	CN-05N456-38842-357 -C508	Power by PC
(2)	Mouse	DELL	MOC5UO	HOX06NVO	Power by PC
(3)	PC	ICP DAS	BTO-AS-GI945GC	N/A	Non-Shielded, 1.8m
※ PC Keypart information					
Main		Software	Diversity		Mode 1
(4)-1	VXC-148U	---	Universal PCI, Serial Communication card with 8 RS-422/485 ports (RoHS) Includes one CA-PC62M D-Sub connector.		V
(4)-2	VXC-148U/D2	---	Universal PCI, Serial Communication card with 8 RS-422/485 ports (RoHS) Includes one CA-9-6210 cable.		
(4)-3	PCI-P8R8	---	8-channel isolated digital input,8-channel Relay output Includes one CA-4002 D-Sub connector.		
(4)-4	PCI-P16R16	---	16-channel isolated digital input,16-channel Relay output Includes one CA-4037W cable and two CA-4002 D-Sub connectors.		V
(4)-5	PEX-P16R16i	---	PCI Express x1, 16-channel Isolated Digital Input, 16-channel Relay Output Includes one CA-4037W cable and two CA-4002 D-Sub connectors.		V

Support Unit					
Product		Manufacturer	Model Number	Serial Number	Power Cord
1.	Industrial Power Supply	ICP DAS	DP-1200	N/A	Non-Shielded, 1.8m with one core

3.4. Test Site Environment

Items	Test Item	Required (IEC 60068-1)	Actual
Temperature (°C)	FCC part 15: 15.107 Conducted Emission	15-35	26
Humidity (%RH)		25-75	60
Barometric pressure (mbar)		860-1060	950
Temperature (°C)	FCC part 15: 15.109 Radiated Emission	15-35	26
Humidity (%RH)		25-75	60
Barometric pressure (mbar)		860-1060	950