

DVP06XA-S

DVP06XA-S2

Instruction Sheet

安 裝 說 明

安 裝 說 明

Mixed Analog I/O Module

類比I/O混合模組

模拟I/O混合模块



Warning

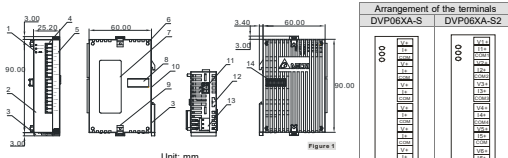
EN **Warning**
The DVP06XA-S/DVP06XA-S2 is an OPEN-TYPE device. It should be installed in a control cabinet free of airborne dust, humidity, electric shock and vibration. To prevent non-maintenance staff from operating DVP06XA-S/DVP06XA-S2, or to prevent an accident from damaging DVP06XA-S/DVP06XA-S2, the control cabinet in which DVP06XA-S/DVP06XA-S2 is installed should be equipped with a safeguard. For example, the control cabinet in which DVP06XA-S/DVP06XA-S2 is installed can be interlocked with a special tool or key.
EN **DO NOT** connect AC power to any of I/O terminals, otherwise serious damage may occur. Please check all wiring again before.
Note that the ground terminal **⓪** in DVP06XA-S/DVP06XA-S2 is correctly grounded in order to prevent electromagnetic interference.
FR **DVP06XA-S/DVP06XA-S2 est un module OUVERT.** Il doit être installé que dans une enceinte protectrice (contre la poussière, les arcs, les vibrations, les pressions, l'humidité, de vibration et hors d'exposition de choc électrique). La protection doit éviter que les personnes non habilitées à la maintenance puissent accéder à l'appareil (exemple, une clé ou un outil dont l'usage est nécessaire pour ouvrir une protection).
FR **Né pas appliquer la tension secteur sur les bornes d'entrées/sorties.** Une application DVP06XA-S/DVP06XA-S2 pourra être endommagée. Merci de vérifier encore une fois le câblage avant la mise sous tension de DVP06XA-S/DVP06XA-S2. Lors de la déconnection de l'appareil, ne pas toucher les connecteurs dans la minute suivante. Vérifier que la terre est bien reliée au connecteur de terre. **⓪** doit d'être sous interférence électromagnétique.

0 Introduction

Model Explanation & Peripherals

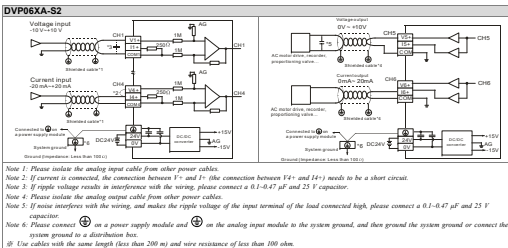
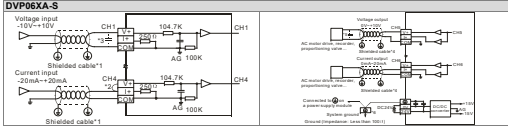
- Thank you for choosing the Delta DVP series PLC. The analog input/output module DVP06XA-S/DVP06XA-S2 receives external 4-point analog signal input (voltage or current) and converts it into 12-bit digital signals. DVP06XA-S/DVP06XA-S2 receives two pieces of 12-bit digital data from a PLC, and converts the digital data into 2-point analog signal output (voltage or current). There are 48 CRs (control registers) in the module, and each register has 16 bits. A DVP series slim type PLC can read data from DVP06XA-S/DVP06XA-S2 or write data to DVP06XA-S/DVP06XA-S2 by means of the instruction FROM/TO.
- The user can select voltage or current input by wiring. Range of voltage input: $\pm 10\text{VDC}$ (resolution: 5mV). Range of current input: $\pm 20\text{mA}$ (resolution: 20 μA).
- The user can also select voltage or current output by wiring. Range of voltage output: 0V ~ $+10\text{VDC}$ (resolution: 2.5mV). Range of current output: 0mA ~ 20mA (resolution: 5 μA).

Outline & Arrangement of the Terminals



- 1. POWER, RUN and ERROR indicators
- 2. Model name
- 3. DIN rail clip
- 4. I/O terminals
- 5. I/O point indicators
- 6. Mounting groove of the extension unit
- 7. Nameplate
- 8. Extension port
- 9. Extension unit clip
- 10. DIN rail groove (35mm)
- 11. RS-485 communication port
- 12. Mounting groove of the extension unit
- 13. DC power input
- 14. Extension port

External Wiring



0 Specifications

Mixed analog input (ADI) module		
Power supply voltage	24VDC (20.4VDC ~ 28.8VDC) (+15% ~ +20%)	
Analog input channel	4 channels (analog input)	
Analog input range	$\pm 10\text{V}$	$\pm 20\text{mA}$
Digital data range	Resolution: 12 bits (1LSB=5mV)	11 bits (1LSB=5 μA)
Resolution	12 bits (1LSB=5mV)	11 bits (1LSB=5 μA)
Input impedance (DVP06XA-S)	20K Ω	250 Ω
Input impedance (DVP06XA-S2)	1M Ω	250 Ω
Overall accuracy	$\pm 0.5\%$ of full scale of 25°C (77°F) $\pm 1\%$ of full scale during 0 ~ 55°C (32 ~ 131°F)	$\pm 0.5\%$ of full scale of 25°C (77°F) $\pm 1\%$ of full scale during 0 ~ 55°C (32 ~ 131°F)
Response time	3ms $\times$ number of channels	3ms $\times$ number of channels
Isolation method	The analog circuit and the digital circuit are grounded together. There is no isolation. DVP06XA-S2: The analog circuit is isolated from the digital circuit by an optocoupler, but the analog channels are not isolated from one other.	The analog circuit and the digital circuit are grounded together. There is no isolation. DVP06XA-S2: The analog circuit is isolated from the digital circuit by an optocoupler, but the analog channels are not isolated from one other.
Absolute input range	$\pm 15\text{V}$	$\pm 25\text{mA}$
Digital data format	16-bit 2's complement	16-bit 2's complement
Storage function	Yes (CR#2 ~ CR#5 can be set and the range is K1 ~ K20)	Yes (CR#2 ~ CR#5 can be set and the range is K1 ~ K20)
Self diagnostic function self detection	Upper boundary and lower bound detection per channel	Upper boundary and lower bound detection per channel
Mixed digital output (DA) module		
Analog signal output channels	2 channel per module	
Analog output range	0 ~ 10V	0 ~ 20mA
Digital data range	0 ~ 4,000	0 ~ 20mA
Resolution	12 bits (1LSB=5mV)	12 bits (1LSB=5 μA)
Output impedance	50 Ω	50 Ω
Overall accuracy	$\pm 0.5\%$ of full scale of 25°C (77°F) $\pm 1\%$ of full scale during 0 ~ 55°C (32 ~ 131°F)	$\pm 0.5\%$ of full scale of 25°C (77°F) $\pm 1\%$ of full scale during 0 ~ 55°C (32 ~ 131°F)
Response time	3ms $\times$ number of channels	3ms $\times$ number of channels
Max. output current	10mA	10mA
Tolerance, carried impedance	$\geq 1\text{K}\Omega$	$\geq 500\Omega$
Digital data format	16-bit 2's complement	16-bit 2's complement
Isolation method	DVP06XA-S: The analog circuit and the digital circuit are grounded together. There is no isolation. DVP06XA-S2: The analog circuit is isolated from the digital circuit by an optocoupler, but the analog channels are not isolated from one other.	DVP06XA-S: The analog circuit and the digital circuit are grounded together. There is no isolation. DVP06XA-S2: The analog circuit is isolated from the digital circuit by an optocoupler, but the analog channels are not isolated from one other.
Protection	Supported, including ASCIRTU mode. Default communication method: 9600, 7, E, 1, ASCII; refer to CR#2 for details on the communication method. Note1: RS-485 cannot be used when connected to CPU series PLCs. Note2: Refer to slim Type Special Modbus Communications in the appendix E of the DVP programming manual for more details on RS-485 communication settings.	Supported, including ASCIRTU mode. Default communication method: 9600, 7, E, 1, ASCII; refer to CR#2 for details on the communication method. Note1: RS-485 cannot be used when connected to CPU series PLCs. Note2: Refer to slim Type Special Modbus Communications in the appendix E of the DVP programming manual for more details on RS-485 communication settings.
Communication mode (RS-485)	When DVP06XA-S/DVP06XA-S2 modules are connected to a PLC, the modules are numbered from 0.7 to 0.8 to the PLC and 7.1 to 7.8 to be a further. The Maximum number of modules is 8 modules and they do not occupy any digital I/O points of the PLC.	When DVP06XA-S/DVP06XA-S2 modules are connected to a PLC, the modules are numbered from 0.7 to 0.8 to the PLC and 7.1 to 7.8 to be a further. The Maximum number of modules is 8 modules and they do not occupy any digital I/O points of the PLC.
Others		
Maximum power consumption	2W at 24VDC (20.4VDC ~ 28.8VDC) (+15% ~ +20%), supplied by external power.	2W at 24VDC (20.4VDC ~ 28.8VDC) (+15% ~ +20%), supplied by external power.
Environment	Operation: 0°C ~ 55°C (temperature), 5 ~ 95% (humidity), pollution degree 2. Storage: -25°C ~ 70°C (temperature), 5 ~ 95% (humidity).	Operation: 0°C ~ 55°C (temperature), 5 ~ 95% (humidity), pollution degree 2. Storage: -25°C ~ 70°C (temperature), 5 ~ 95% (humidity).
Operation voltage	Operation: 0°C ~ 55°C (temperature), 5 ~ 95% (humidity), pollution degree 2. Storage: -25°C ~ 70°C (temperature), 5 ~ 95% (humidity).	Operation: 0°C ~ 55°C (temperature), 5 ~ 95% (humidity), pollution degree 2. Storage: -25°C ~ 70°C (temperature), 5 ~ 95% (humidity).

International standards: IEC 61131-2 IEC 68-2-6 (TEST F) IEC 61131-2 IEC 68-2-27 (TEST Ea)

0 CR (Control Register)

CR#	parameter	Latched	Register name	b15	b14	b13	b12	b11	b10	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0
CR#	parameter	Latched	Register name	CH5	CH4	CH3	CH2	CH1	CH0	CH5	CH4	CH3	CH2	CH1	CH0	CH5	CH4	CH3	CH2
R0	H40CB	R	Model type																
R1	H40CB	R/W	Input mode setting																

CR#1 b11~b0 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#2 ~ CR#5 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#6 ~ CR#9 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#10 ~ CR#13 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#14 ~ CR#17 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#18 ~ CR#21 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#22 ~ CR#25 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#26 ~ CR#29 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#30 ~ CR#33 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#34 ~ CR#37 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#38 ~ CR#41 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#42 ~ CR#45 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#46 ~ CR#49 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#50 ~ CR#53 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#54 ~ CR#57 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#58 ~ CR#61 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#62 ~ CR#65 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#66 ~ CR#69 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#70 ~ CR#73 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#74 ~ CR#77 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#78 ~ CR#81 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#82 ~ CR#85 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#86 ~ CR#89 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#90 ~ CR#93 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#94 ~ CR#97 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#98 ~ CR#101 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#102 ~ CR#105 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#106 ~ CR#109 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#110 ~ CR#113 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#114 ~ CR#117 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#118 ~ CR#121 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#122 ~ CR#125 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#126 ~ CR#129 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 1111. Factory setting is 10000.

CR#130 ~ CR#133 are used to set 4 internal channels working mode of analog input module (ADI). b11~b10 are used to set 2 channels working mode of analog output module (DA). Every channel has four modes that can be set individually. For example: if setting CH1 mode 0 (b2~b0=000, CH2 mode 1 (b2~b0=001), CH3 mode 2 (b2~b0=010), CH4 mode 3 (b2~b0=011), CH5 mode 4 (b2~b0=100), CH6 mode 5 (b2~b0=101), CH7 mode 6 (b2~b0=110), CH8 mode 7 (b2~b0=111). b11~b10 need be set to 111

