【AT Command Set】

(EID091-AX01-X Series)

(CANFD ⇌ Serial Port)



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chapter one "Basic Functions" AT Command Set Collection

1、 Enter AT Command Mode: Send +++ via serial port. If the device echoes +OK, send AT again within 3 seconds. If the device echoes +OK AT MODE, AT command mode is activated.

2、 This command manual supports TTL-to-CAN conversion devices such as models EID091-A701-S.

3、 The following text contains "<CR><LF>" and "\r\n" representing line break characters for different text formats, which correspond to HEX values (0x0D and 0x0A);

Error Code Table:

Error Code	Description
-1	Invalid command format
1	Invalid command
2	System Error
-3	Undefined
-4	Invalid parameter
-5	Incorrect password

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1.1 Basic Configuration Command Summary

Command	Description
AT+EXAT	Exit AT configuration mode
AT+REBT	Reboot device
AT+RESTORE	Restore factory settings
AT+VER	Query firmware version
AT+UART	Serial Port Parameters
AT+UDMHT	Custom protocol parameters
AT+RANDOM	Transparent Tag Identifier Parameters
AT+MSG	Transparent Mode Parameters
AT+MODE	Switch mode
AT+DIRECTION	Translation Direction
AT+CANSET	CAN Bus Settings
AT+CANARB	CAN Arbitration Segment Baud Rate Setting (CAN bus clock 20 MHz)
AT+CANDATA	CAN Data Segment Baud Rate Setting (CAN bus clock 20 MHz)
AT+FILTER	Filter settings

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1.2 Enter AT Command Mode

Command	AT
Function	Enter AT command mode
Send	AT
Return	<CR><LF>+OK<CR><LF>/<CR><LF>+OK=AT enable<CR><LF>
Remarks	Returned when no connection or configuration exists: +OK=AT enabled Returned when connected: +OK

【Example】

First send +++ without line break

No line break required when sending AT

Receive \r\n+OK AT MODE \r\n

1.3 Exit AT commands

Command	AT+EXAT
Function	Enter AT command mode
Send	AT+EXAT<CR><LF>
Return	<CR><LF>+OK<CR><LF>

Example:

Send: AT+EXAT\r\n

Received: \r\n+OK\r\n

1.4 Restart

Command	AT+REBT
Function	Reboot
Send	AT+REBT<CR><LF>
Return	<CR><LF>+OK<CR><LF>

【Example】

Send: AT+REBT\r\n

Received: \r\n +OK \r\n

Wait for reboot to complete.

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1.5 Restore factory settings

Command	AT+RESTORE
Function	Restore factory settings
Send	AT+RESTORE<CR><LF>
Return	<CR><LF>+OK<CR><LF>

【Example】

Send: AT+RESTORE\r\n

Received: \r\n +OK \r\n

Wait for the reboot to complete.

1.6 Query version information

Command	AT+VER
Function	Query version information
Send	AT+VER<CR><LF>
Return	<CR><LF>+OK<CR><LF>

Example

Send: AT+VER\r\n

Received: \r\n +OK =FW-249-0-xx\r\n

1.7 Query /Set Serial Port

Command	AT+UART
Function	Query、Configure Serial Port
Send (Query)	AT+UART<CR><LF>
Return (Query)	<CR><LF>+OK=<Baud, Data, Parity, Stop, packetTime><CR><LF>
Send (Configuration)	AT+UART=< Baud, Data, Parity, Stop, packetTime ><CR><LF>
Return (Set)	<CR><LF>+OK<CR><LF>
Notes	Baud Rate: 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200, 230400, 460800, 921600, 1M, 2M, 3M; Data Bits: 8, 9 Parity: NONE, EVEN, ODD Stop Bit: 1, 2 Packet Time: 1-500 (idle bytes at current baud rate) 0: Disable this feature

【Example】

Query:

Send: AT+UART\r\n

Received: \r\n+OK= 115200,8,NONE,1,2\r\n

Set:

Send: AT+UART= 115200,8,NONE,1,2\r\n

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Received: \r\n+OK\r\n

1.8 Query Custom Protocol Parameters

Command	AT+UDMHT
Function	Query custom protocol parameters
Send	AT+UDMHT <CR><LF>
Return	<CR><LF>+OK=<Frame Header, Frame Tail><CR><LF>
Remarks	Frame header 0-FF (HEX) Frame End 0-FF(HEX)

【Example】

Query:

Send: AT+ UDMHT \r\n

Received: \r\n +OK=AA,FF \r\n

Set:

Send: AT+RANDOM=2,3\r\n

Received: \r\n +OK\r\n

1.9 Query/Set Transparent Band Identifier Parameters

Command	AT+RANDOM
Function	Query/set band identifier parameters
Send (Query)	AT+RANDOM <CR><LF>
Return (Query)	<CR><LF>+OK=<length, position><CR><LF>
Send (Set)	AT+WAN=<length, position><CR><LF>
Return (Set)	<CR><LF>+OK<CR><LF>
Notes	Length: 0-4 Position: 0-7

【Example】

Query:

Send: AT+ RANDOM \r\n

Received:\r\n+OK= 4,3\r\n

Set:

Send: AT+WAN=4,3\r\n

Received:\r\n+OK\r\n

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1.10 Query/Set Transparent Mode Parameters

Command	AT+MSG
Function	Query or set transparent mode parameters
Send (Query)	AT+MSG<CR><LF>
Return (Query)	<CR><LF>+OK=<Enable Frame ID, Enable Frame Info><CR><LF>
Send (Set)	AT+MSG=<Enable Frame ID, Enable Frame Message><CR><LF>
Return (Set)	<CR><LF>+OK<CR><LF>
Notes	Enable Frame ID: 0 or 1 Enable Frame Information: 0 or 1

【Example】

Query:

Send: AT+MSG \r\n

Received:\r\n+OK=1,0\r\n

Set:

Send: AT+MSG=1,0\r\n

Received:\r\n+OK\r\n

1.11 Query/Set: Conversion Mode

Command	AT+MODE
Function	Query/set conversion mode
Send (Query)	AT+MODE<CR><LF>
Return (Query)	<CR><LF>+OK=< Mode ><CR><LF>
Send (Set)	AT+MODE=< Mode ><CR><LF>
Return (Set)	<CR><LF>+OK<CR><LF>
Notes	Mode: 0-4 (Transparent Mode, Transparent with Label Conversion, Protocol Mode, Modbus Conversion, Custom Protocol Conversion)

【Example】

Query:

Send: AT+MODE\r\n

Received: \r\n+OK=1\r\n

Set:

Send: AT+MODE=0\r\n

Received: \r\n+OK\r\n

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1.12 Query/Set Direction Conversion

Command	AT+DIRECTION
Function	Query network link status
Send (Query)	AT+DIRECTION<CR><LF>
Return (Query)	<CR><LF>+OK=< direction ><CR><LF>
Send (Set)	AT+DIRECTION=<direction><CR><LF>
Return (Set)	<CR><LF>+OK<CR><LF>
Remarks	direction

【Example】

Query:

Send: AT+DIRECTION\r\n

Received: \r\n+OK=0 \r\n

Set:

Send: AT+DIRECTION=0\r\n

Received: \r\n+OK\r\n

1.13 Query/Set CAN Bus Configuration

Command	AT+CANSET
Function	Query/set serial port buffer flush status
Send (Query)	AT+CANSET<CR><LF>
Return (Query)	<CR><LF>+OK=< standard, protocol, Frame type, SSP, ID >
Send (Set)	AT+CANSET=< standard, protocol, Frame type, SSP, ID ><CR><LF>
Return (Set)	<CR><LF>+OK<CR><LF>
Notes	standard: 0 or 1 (IOS or Bosch) protocol: 0-2 (CAN, CANFD, CANFD Accelerated) Frame type: 0 or 1 (Standard Frame or Extended Frame) SSP: 0-255 ID: Standard frame 0-7FF, Extended frame 0-1FFFFFFF

【Example】

Query:

Send: AT+CANSET\r\n

Received: \r\n+OK=1,2,0,7,CC\r\n

Set:

Send: AT+CANSET=1,2,0,7,CC\r\n

Received: \r\n+OK\r\n

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1.14 Query/Set Arbitration Segment Baud Rate

Command	AT+CANARB
Function	Query/set registered packet mode
Send (Query)	AT+CANARB<CR><LF>
Return (Query)	<CR><LF>+OK=< Baud, SJW, SEG1, SEG2><CR><LF>
Send (Set)	AT+CANARB=<Baud Rate, SJW, SEG1, SEG2><CR><LF>
Return (Set)	<CR><LF>+OK<CR><LF>
Notes	Baud Rate: 0 (Custom), 50, 100, 125, 250, 500, 800, 1000 (K). When this parameter is non-zero, SJW, SEG1, and SEG2 are disabled. SJW: 1-128 and not greater than seg2 SEG1: 2-513 SEG2: 1-128

【Example】

Query:

Send: AT+CANARB\r\n

Received: \r\n+OK=0,2,7,4\r\n

Set:

Send: AT+CANARB=0,2,7,4\r\n

Received: \r\n+OK\r\n

1.15 Query/Set Data Baud Rate

Command	AT+CANDATA
Function	Query/set custom register package contents
Send (Query)	AT+CANDATA<CR><LF>
Return (Query)	<CR><LF>+OK=< Baud, SJW, SEG1, SEG2><CR><LF>
Send (Set)	AT+CANDATA=<Baud, SJW, SEG1, SEG2><CR><LF>
Return (Set)	<CR><LF>+OK<CR><LF>
Notes	Baud Rate: 0 (Custom), 1, 2, 4, 5 (M). When this parameter is non-zero, SJW, SEG1, and SEG2 are disabled. SJW: 1-128 and not greater than seg2 SEG1: 2-257 SEG2: 1-128

【Example】

Query:

Send: AT+CANDATA\r\n

Received: \r\n+OK=5,1,2,1\r\n

Set:

Send: AT+CANDATA=5,1,2,1\r\n

Received: \r\n+OK\r\n

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1.16 Query/Set Filter Settings

Command	AT+FILTER
Function	Query/Set Filter Settings
Send (Query)	AT+FILTER=<filter_num>,"para"? <CR><LF>
Return (Query)	<CR><LF>+OK=<filter_num>,"para", <sw,idType,ID,IDmask,dlc, format,brs,remote><CR><LF>
Send (Set)	AT+FILTER=<filter_num>,"para", <switch,idType,ID,IDmask,dlc, format,brs,remote><CR><LF>
Return (Setting)	<CR><LF>+OK<CR><LF>
Notes	filter_num: Filter number 1-12 sw: 0 Off, 1 On idType: 0 Standard Frame, 1 Extended Frame ID: Standard frame 0-7FF, Extended frame 0-1FFFFFFF IDmask: ID mask, Standard Frame 0-7FF, Extended Frame 0-1FFFFFFF dlc: 0 (Any), 1-8, 12, 16, 20, 24, 32, 48, 64 format: 0 (Any), 1 (CAN only), 2 (CANFD only) brs: 0 (Any), 1 (Non-BRS only), 2 (BRS only) remote: 0 (any), 1 (non-remote frames only), 2 (remote frames only)

【Example】

Query:

Send: AT+FILTER=1,"para"? \r\n

Received: \r\n+OK=1,"para",1,0,1F,CC,48,0,0,0\r\n

Send: AT+FILTER=1,"para",1,0,1F,CC,48,0,0,0 \r\n

Received: \r\n+OK\r\n

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Revision History

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1.0	January 15, 2026	Initial Version

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