

# COEX SNMP Protocol



Instructions

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# 1 Applicable Products

| Product Type           | Model   | Version |
|------------------------|---|---------|
| LED display controller | Single-card controllers: MX40 Pro, MX30, MX20, KU20<br>Card-based controllers: MX6000 Pro, CX40 Pro | V1.4.0  |
| Software               | VMP   | V1.4.0  |

## 2 Function Scope

The following operations can be performed through SNMP:

- Controller information obtaining
- Screen information obtaining
- Cabinet information obtaining
- Controller status obtaining and reporting
- Input source status obtaining and reporting
- Ethernet port status obtaining and reporting
- Receiving card status obtaining and reporting
- SNMP reporting target server (ip/port number 162)
- SNMP reporting period (range: 1-60, unit: minute)

## 3 Operating Procedure

Each function corresponds to an OID, which is used to distinguish different monitoring items. When testing through the MIB software, enter the corresponding OID to get the corresponding monitoring item, enter the reporting OID to receive the trap information, and enter the reporting time OID to set the trap period. Specific operations are as follows:

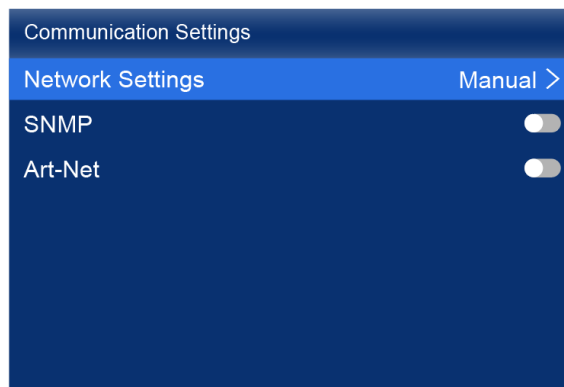
### 3.1 Enable SNMP via Controllers

#### Single-card Controllers

Single-card controllers include MX40 Pro, MX30, MX20, KU20

Step 1 On the main menu screen, choose **Communication Settings > Network Settings**.

Figure 3-1 Network settings



Step 2 Toggle on or off **SNMP**.

- : Enable SNMP.

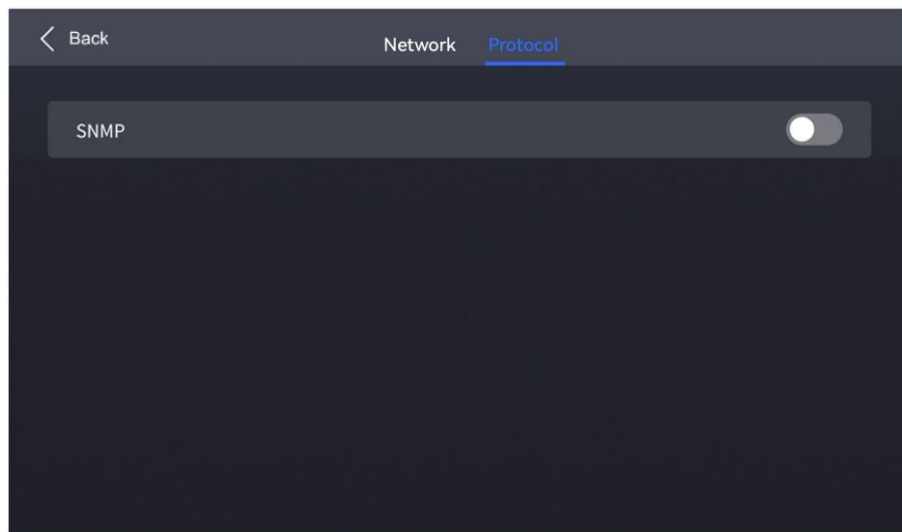
- : Disable SNMP.

## Card-based Controllers

Card-based controllers include MX6000 Pro and MX2000 Pro.

Step 1 Select **Communication** > **Protocol** from the main menu to access the settings interface.

Figure 3-2 Protocol

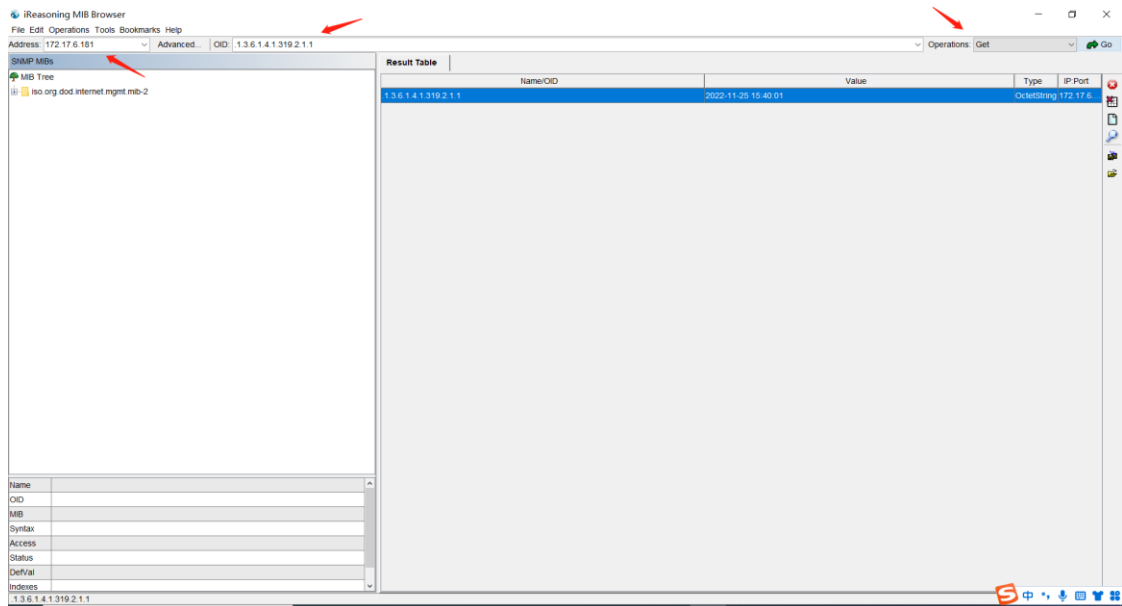


Step 2 Toggle on or off **SNMP**.

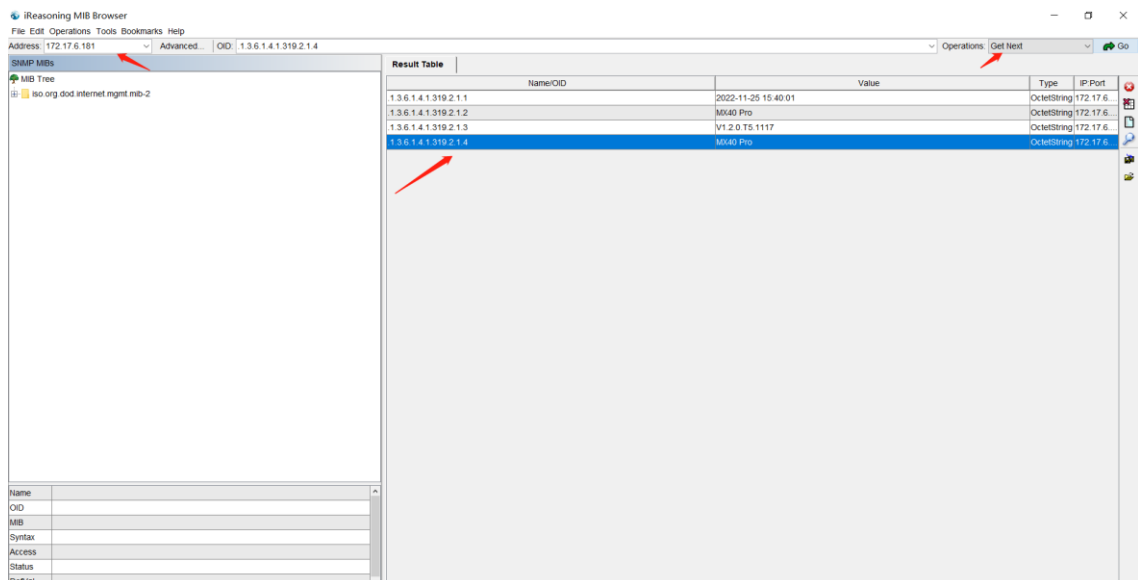
- : Enable SNMP.
- : Disable SNMP.

## 3.2 Retrieve Monitoring Information via a Get Request

- Step 1 Open the MIB Browser to enter the software interface.
- Step 2 By following the arrows in the figure below in order, fill in the correct device IP address and the OID corresponding to the monitoring item information in the picture, select **Get** in the **Operations** drop-down list, and finally click the **Go** button to complete the operation of getting the monitoring item information by Get.
- Step 3 The execution results are displayed in the **Result Table** area, and the information contains the OID address, the results of the monitored items returned, the data type and the device IP, as shown in the figure.

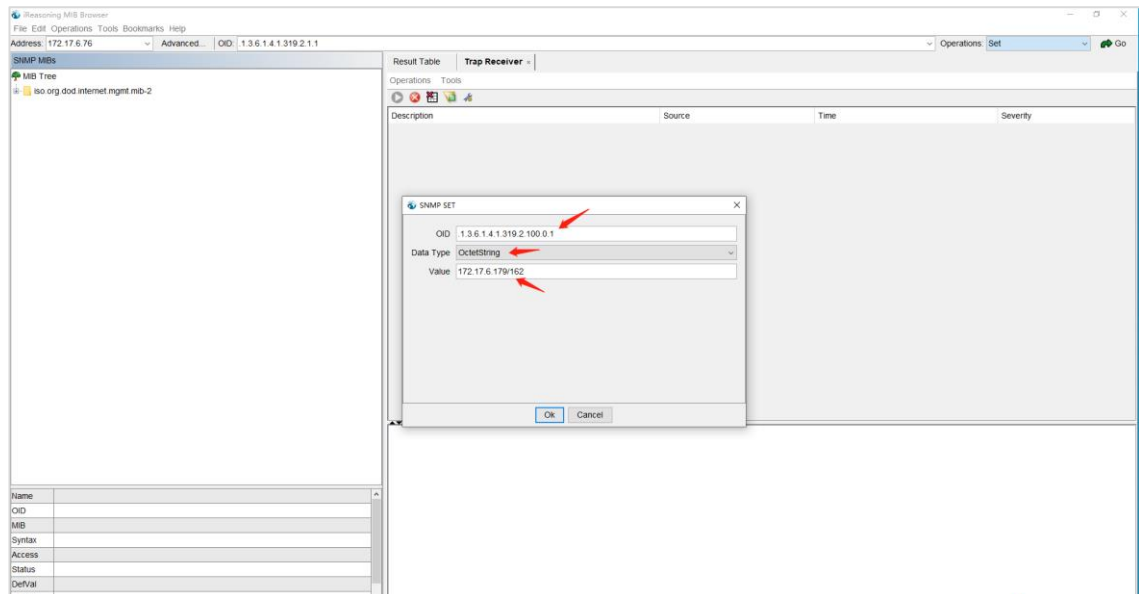


Step 4 The rest of the monitoring information can be obtained directly by selecting the **Get Next** option in the **Operations** drop-down list and clicking the **Go** button, as shown in the figure below.

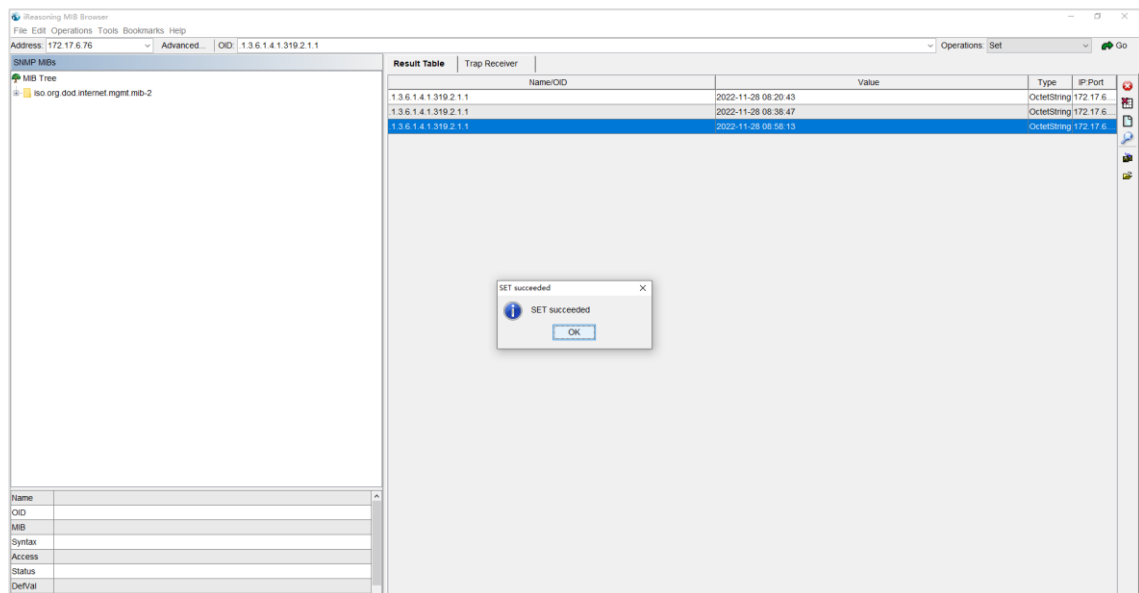


### 3.3 Get Trap Reporting Information

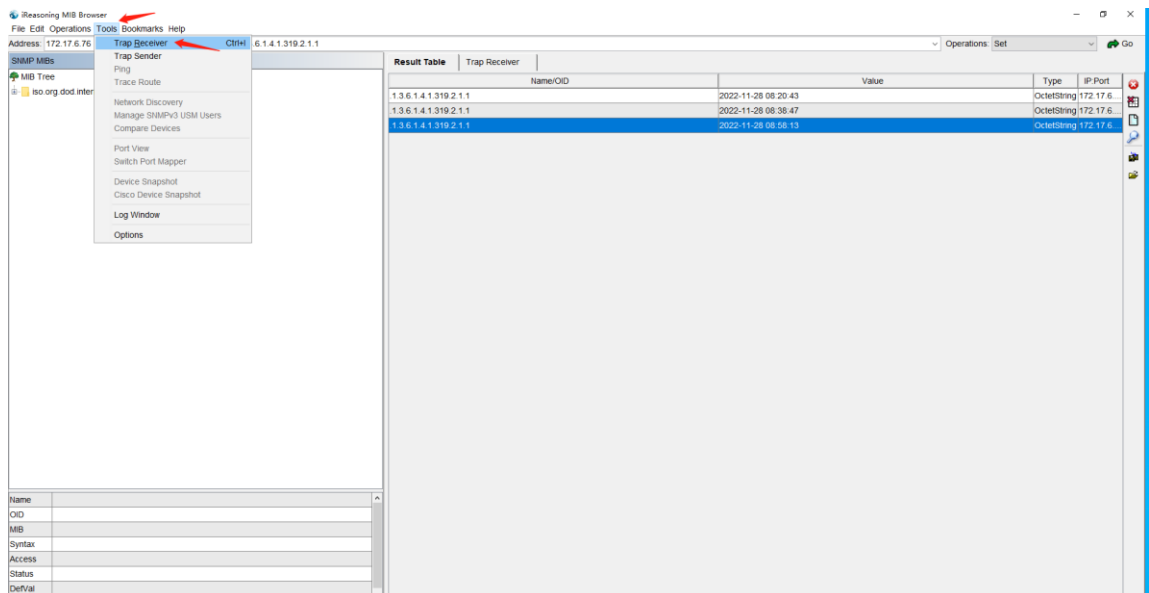
- Step 1 Open the MIB Browser to enter the software interface.
- Step 2 Fill in the correct device IP address and the OID corresponding to the monitoring item information at the top of the page, select **Set** in the **Operations** drop-down list and click the **Go** button.
- Step 3 In the OID input box of the pop-up **SNMP SET** edit area, fill in .1.3.6.1.4.1.319.2.100.0.1, select the corresponding type OctetString of the parameter to be sent in the **Data Type** drop-down list, and fill in the parameter value 172.17.6.179/162 (local IP/162) in the **Value** input box.



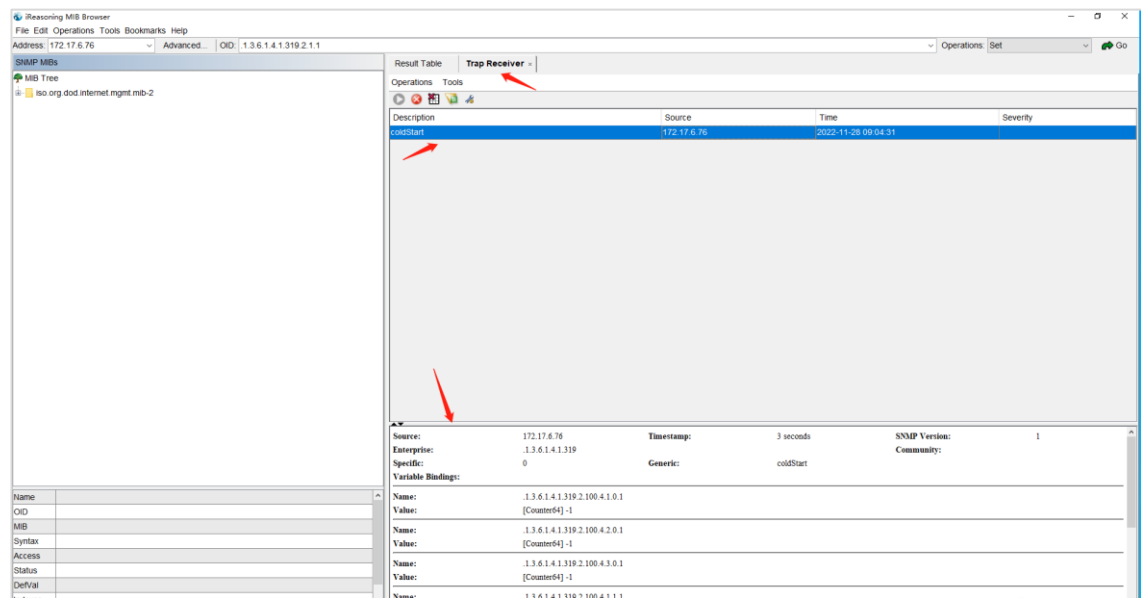
Step 4 Click the **OK** button to complete the **SNMP Trap** server setup operation.



Step 5 Click on the **Tools** option in the menu bar of the software and select the **Trap Receiver** option in the drop-down menu that opens to complete the operation of getting information of monitoring items by Trap.

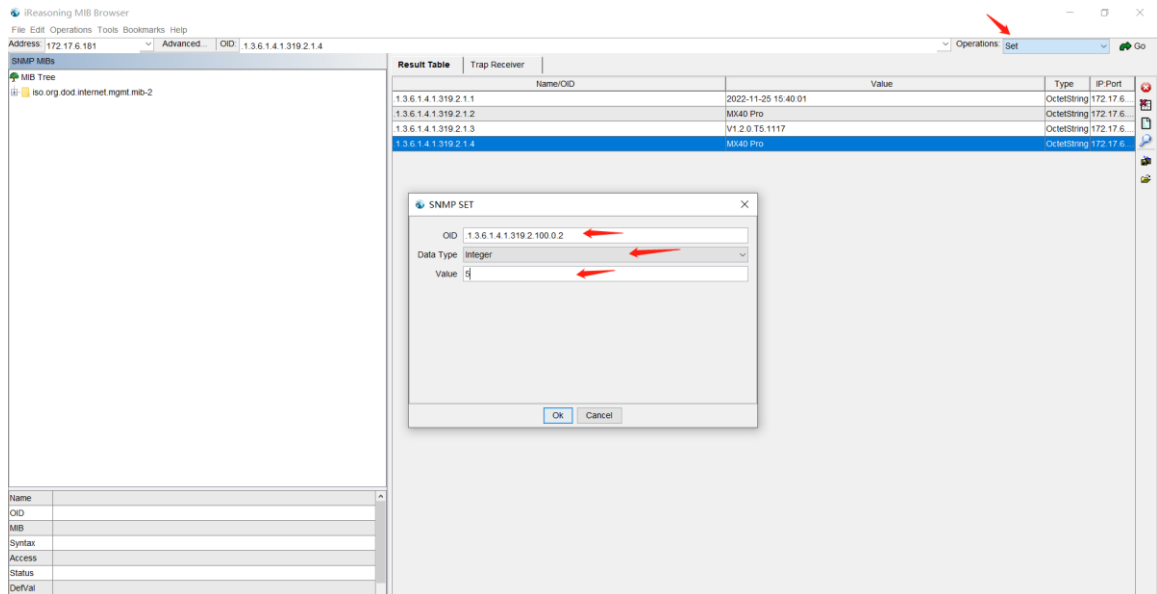


- Step 6 The execution results are displayed in the **Trap Receiver** area, as shown in the figure. Detailed information can be viewed in the details display area below by clicking on the specific entry in the **Description**.



### 3.4 Perform the Operation of Reporting Target Settings

- Step 1 Open the MIB Browser to enter the software interface.
- Step 2 Fill in the correct device IP address and the OID corresponding to the monitoring item information at the top of the page, select **Set** in the **Operations** drop-down list and Click the **Go** button.
- Step 3 Fill in the correct OID in the **OID** input box of the pop-up **SNMP SET** edit area, select the corresponding type of the parameter to be sent in the **Data Type** drop-down list, and fill in the parameter value in the **Value** input box. After that, click the **OK** button to complete the report target setting operation.

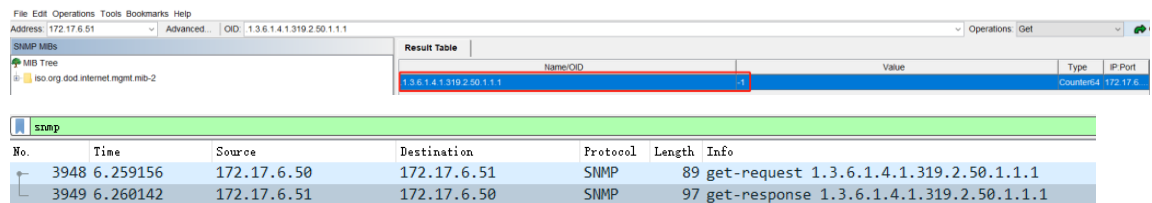


## 4 Examples

Demonstration software: MIB software (software disadvantage: not supporting the display of uint64 type data)

- Get example

When testing the connection status of receiving cards 1-64 under Ethernet port 1, the value obtained is -1. The MIB software will treat the highest bit as a symbolic bit and all get or trap data in int64 type will be in this situation. At this time, use wireshark to capture packet for test:



```

version: version-1 (0)
community: public
  data: get-response (2)
    get-response
      request-id: 845850389
      error-status: noError (0)
      error-index: 0
      variable-bindings: 1 item
        > 1.3.6.1.4.1.319.2.50.1.1.1: 18446744073709551615
[Response To: 3948]
[Time: 0.000986000 seconds]

```

- Trap example



To test the connection status change of receiving cards 1- 64 under Ethernet port 1, you can manually unplug and then plug the receiving cards to cause changes.

- Set example

Set the reporting period to 5 minutes, as follows (MIB software):

The screenshot shows a network management interface. At the top, there is a dropdown menu for 'Operations' with 'Set' selected. Below this is a table with columns 'Value', 'Type', and 'IP:Port'. The table contains two rows, both with 'Counter64' in the 'Type' column and '172.17.6...' in the 'IP:Port' column. A dialog box titled 'SNMP SET' is open in the foreground. It has three input fields: 'OID' with the value '.1.3.6.1.4.1.319.2.100.0.2', 'Data Type' set to 'Integer', and 'Value' set to '5'. The dialog box has 'Ok' and 'Cancel' buttons at the bottom.

## 5 COEX Series Controller and SNMP OID Parameter Comparison

N in the OID denotes a numerical value and takes a value in the range of 1 to the maximum value of the quantity (the maximum value of the quantity is obtained by the corresponding OID).

### 5.1 SNMP GET (Read-only)

#### 5.1.1 Controller Information

| Function                         | OID                       | Data Type | Controller Type          | Description           |
|----------------------------------|---------------------------|-----------|--------------------------|-----------------------|
| Controller time and date         | 1.3.6.1.4.1.319.10.10.1.1 | string    | Single-card & Card-based | 2006/01/03 15:04:05   |
| Controller model                 | 1.3.6.1.4.1.319.10.10.1.2 | string    | Single-card & Card-based | \                     |
| Controller firmware version      | 1.3.6.1.4.1.319.10.10.1.3 | string    | Single-card & Card-based | \                     |
| Controller name                  | 1.3.6.1.4.1.319.10.10.1.4 | string    | Single-card & Card-based | \                     |
| Controller primary/backup status | 1.3.6.1.4.1.319.10.10.1.5 | int       | Single-card & Card-based | 0: primary; 1: backup |
| Controller serial number         | 1.3.6.1.4.1.319.10.10.1.6 | string    | Single-card & Card-based | \                     |
| Controller MAC address           | 1.3.6.1.4.1.319.10.10.1.7 | string    | Single-card & Card-based | \                     |
| Controller IP address            | 1.3.6.1.4.1.319.10.10.1.8 | string    | Single-card & Card-based | 192.168.12.34         |

## 5.1.2 Controller Status

| Function  | OID                            | Data Type | Controller Type          | Description                      |
|---|--------------------------------|-----------|--------------------------|----------------------------------|
| Number of mainboard temperature measurement points  | 1.3.6.1.4.1.319.10.10.10.1     | int       | Single-card & Card-based | $N \geq 0$                       |
| Name of mainboard temperature measurement point N   | 1.3.6.1.4.1.319.10.10.10.2.N.1 | string    | Single-card & Card-based |                                  |
| Status of mainboard temperature measurement point N | 1.3.6.1.4.1.319.10.10.10.2.N.2 | int       | Single-card & Card-based | Normal: 0<br>Abnormal: 1         |
| Value of mainboard temperature measurement point N  | 1.3.6.1.4.1.319.10.10.10.2.N.3 | int       | Single-card & Card-based |                                  |
| Number of mainboard voltage measurement points      | 1.3.6.1.4.1.319.10.10.10.3     | int       | Single-card & Card-based |                                  |
| Name of mainboard voltage measurement point N       | 1.3.6.1.4.1.319.10.10.10.4.N.1 | string    | Single-card & Card-based |                                  |
| Status of mainboard voltage measurement point N     | 1.3.6.1.4.1.319.10.10.10.4.N.2 | int       | Single-card & Card-based | Normal: 0<br>Abnormal: 1         |
| Value of mainboard voltage measurement point N      | 1.3.6.1.4.1.319.10.10.10.4.N.3 | int       | Single-card & Card-based |                                  |
| Number of fans                                      | 1.3.6.1.4.1.319.10.10.10.5     | int       | Single-card & Card-based |                                  |
| Name of fan N                                       | 1.3.6.1.4.1.319.10.10.10.6.N.1 | string    | Single-card & Card-based |                                  |
| Status of fan N                                     | 1.3.6.1.4.1.319.10.10.10.6.N.2 | int       | Single-card & Card-based | Normal: 0<br>Abnormal: 1         |
| Rotating speed of fan N                             | 1.3.6.1.4.1.319.10.10.10.6.N.3 | int       | Single-card & Card-based |                                  |
| Number of controller power supplies                 | 1.3.6.1.4.1.319.10.10.10.7     | int       | Single-card & Card-based |                                  |
| Status of controller power supply N                 | 1.3.6.1.4.1.319.10.10.10.8.N.1 | int       | Single-card & Card-based | Not inserted: 0<br>Inserted: 1   |
| Genlock connection status                           | 1.3.6.1.4.1.319.10.10.10.9.1   | int       | Single-card & Card-based | Not connected: 0<br>Connected: 1 |
| Genlock frame rate                                  | 1.3.6.1.4.1.319.10.10.10.9.2   | int       | Single-card & Card-based |                                  |

## 5.1.3 Output Card Slot Information

| Function                        | OID                        | Data Type | Controller Type          | Description  |
|---------------------------------|----------------------------|-----------|--------------------------|--|
| Number of output card slots (N) | 1.3.6.1.4.1.319.10.10.30.1 | int       | Single-card & Card-based | $N \geq 0$<br>Single-card controller: $N = 1$<br>(The number of output card slots for a single-card) |

|  |                                |           |                          |  |
|--|--------------------------------|-----------|--------------------------|--|
|  |                                |           |                          | controller is always 1)  |
| Output card slot status                          | 1.3.6.1.4.1.319.10.10.30.2     | int       | Single-card & Card-based | Connected: 0<br>Disconnected: 1  |
| Card firmware version of output card slot N      | 1.3.6.1.4.1.319.10.10.30.3.N.1 | Counter64 | Single-card & Card-based |  |
| Card name of output card slot N                  | 1.3.6.1.4.1.319.10.10.30.3.N.2 | string    | Single-card & Card-based |  |
| Card primary/backup status of output card slot N | 1.3.6.1.4.1.319.10.10.30.3.N.3 | string    | Single-card & Card-based | 0x4D 58 5F 34 C3 97 31 30<br>47<br>5F 46 69 62 65 72 20 6F 75<br>74<br>70 75 74 20 63 61 72 64 |
| Card SN of output card slot N                    | 1.3.6.1.4.1.319.10.10.30.3.N.4 | int       | Single-card & Card-based | 0: primary<br>1: backup  |

### 5.1.4 Output Card Slot Status

| Function  | OID                                | Data Type | Controller Type          | Description              |
|---|------------------------------------|-----------|--------------------------|--------------------------|
| Number of card temperature measurement points (Y) of output card slot N     | 1.3.6.1.4.1.319.10.10.30.4.N.1     | string    | Card-based               | $Y \geq 0$               |
| Name of temperature measurement point Y of output card slot N               | 1.3.6.1.4.1.319.10.10.30.4.N.2.Y.1 | int       | Card-based               |                          |
| Temperature status of temperature measurement point Y of output card slot N | 1.3.6.1.4.1.319.10.10.30.4.N.2.Y.2 | string    | Card-based               | 0: Normal<br>1: Abnormal |
| Temperature of temperature measurement point Y of output card slot N        | 1.3.6.1.4.1.319.10.10.30.4.N.2.Y.3 | int       | Card-based               |                          |
| Number of card voltage measurement points of output card slot N             | 1.3.6.1.4.1.319.10.10.30.4.N.3     | int       | Card-based               |                          |
| Name of voltage measurement point Y of output card slot N                   | 1.3.6.1.4.1.319.10.10.30.4.N.4.Y.1 | int       | Card-based               |                          |
| Voltage status of voltage measurement point Y of output card slot N         | 1.3.6.1.4.1.319.10.10.30.4.N.4.Y.2 | string    | Card-based               | 0: Normal<br>1: Abnormal |
| Voltage of voltage measurement point Y of output card slot N                | 1.3.6.1.4.1.319.10.10.30.4.N.4.Y.3 | int       | Card-based               |                          |
| Number of card Ethernet ports of output card slot N                         | 1.3.6.1.4.1.319.10.10.30.5.N.1     | int       | Single-card & Card-based |                          |
| Connection speed of card Ethernet ports of output card slot N               | 1.3.6.1.4.1.319.10.10.30.5.N.2     | int       | Single-card & Card-based |                          |
| Connection status of card Ethernet ports of                                 | 1.3.6.1.4.1.319.10.10.30.5.N.3     | int       | Single-card & Card-based | 0: Normal<br>1: Abnormal |

|   |                                      |           |                          |                          |
|---|--------------------------------------|-----------|--------------------------|--------------------------|
| output card slot N  |                                      |           |                          |                          |
| Number of online receiving cards of Ethernet port Y of output card slot N       | 1.3.6.1.4.1.319.10.10.30.5.N.4.Y.1   | Counter64 | Single-card & Card-based |                          |
| Temperature status of receiving card M of Ethernet port Y of output card slot N | 1.3.6.1.4.1.319.10.10.30.6.N.1.Y.1.M | int       | Single-card & Card-based | 0: Normal<br>1: Abnormal |
| Voltage status of receiving card M of Ethernet port Y of output card slot N     | 1.3.6.1.4.1.319.10.10.30.6.N.1.Y.2.M | Counter64 | Single-card & Card-based | 0: Normal<br>1: Abnormal |

### 5.1.5 Screen Information

| Function                    | OID                           | Data Type | Controller Type          | Description  |
|-----------------------------|-------------------------------|-----------|--------------------------|--|
| Number of screens (N)       | 1.3.6.1.4.1.319.10.20.1.1     | int       | Single-card & Card-based | N ≥ 0<br>Single-card controller: N = 1<br>(The number of screens for a single-card controller is always 1) |
| Name of screen N            | 1.3.6.1.4.1.319.10.20.1.2.N.1 | string    | Single-card & Card-based |  |
| Width of screen N           | 1.3.6.1.4.1.319.10.20.1.2.N.2 | int       | Single-card & Card-based |  |
| Height of screen N          | 1.3.6.1.4.1.319.10.20.1.2.N.3 | int       | Single-card & Card-based |  |
| Frame rate of screen N      | 1.3.6.1.4.1.319.10.20.1.2.N.4 | int       | Single-card & Card-based |  |
| Brightness of screen N      | 1.3.6.1.4.1.319.10.20.1.2.N.5 | string    | Single-card & Card-based |  |
| Sync type of screen N       | 1.3.6.1.4.1.319.10.20.1.2.N.6 | int       | Single-card & Card-based | 0: Current video source<br>1: Genlock<br>2: Internal   |
| Sync frame rate of screen N | 1.3.6.1.4.1.319.10.20.1.2.N.7 | int       | Single-card & Card-based |  |

**Note:** The "Brightness of screen N" is a read-write information.

### 5.1.6 Input Card Slot Information

| Function                                   | OID                            | Data Type | Controller Type          | Description   |
|--|--------------------------------|-----------|--------------------------|---|
| Number of input card slots (N)             | 1.3.6.1.4.1.319.10.10.20.1     | int       | Single-card & Card-based | N ≥ 0<br>Single-card controller: N = 1<br>(The number of input card slots for a single-card controller is always 1) |
| Input card slot status                     | 1.3.6.1.4.1.319.10.10.20.2     | Counter64 | Single-card & Card-based |   |
| Card firmware version of input card slot N | 1.3.6.1.4.1.319.10.10.20.3.N.1 | string    | Single-card & Card-based |   |

|   |                                |        |                          |                         |
|---|--------------------------------|--------|--------------------------|-------------------------|
| Card name of input card slot N                  | 1.3.6.1.4.1.319.10.10.20.3.N.2 | string | Single-card & Card-based |                         |
| Card primary/backup status of input card slot N | 1.3.6.1.4.1.319.10.10.20.3.N.3 | int    | Single-card & Card-based | 0: Primary<br>1: Backup |
| Card SN of input card slot N                    | 1.3.6.1.4.1.319.10.10.20.3.N.4 | string | Single-card & Card-based |                         |

### 5.1.7 Input Card Slot Status

| Function   | OID                                | Data Type | Controller Type | Description              |
|--|------------------------------------|-----------|-----------------|--------------------------|
| Number of card temperature measurement points (Y) of input card slot N     | 1.3.6.1.4.1.319.10.10.20.4.N.1     | int       | Card-based      | $Y \geq 0$               |
| Name of temperature measurement point Y of input card slot N               | 1.3.6.1.4.1.319.10.10.20.4.N.2.Y.1 | string    | Card-based      |                          |
| Temperature status of temperature measurement point Y of input card slot N | 1.3.6.1.4.1.319.10.10.20.4.N.2.Y.2 | int       | Card-based      | 0: Normal<br>1: Abnormal |
| Temperature of temperature measurement point Y of input card slot N        | 1.3.6.1.4.1.319.10.10.20.4.N.2.Y.3 | int       | Card-based      |                          |
| Number of card voltage measurement points of input card slot N             | 1.3.6.1.4.1.319.10.10.20.4.N.3     | int       | Card-based      |                          |
| Name of voltage measurement point Y of input card slot N                   | 1.3.6.1.4.1.319.10.10.20.4.N.4.Y.1 | string    | Card-based      |                          |
| Voltage status of voltage measurement point Y of input card slot N         | 1.3.6.1.4.1.319.10.10.20.4.N.4.Y.2 | int       | Card-based      | 0: Normal<br>1: Abnormal |
| Voltage of voltage measurement point Y of input card slot N                | 1.3.6.1.4.1.319.10.10.20.4.N.4.Y.3 | int       | Card-based      |                          |

### 5.1.8 Input Source Information

| Function   | OID                                | Data Type | Controller Type          | Description   |
|--|------------------------------------|-----------|--------------------------|---|
| Number of card input sources of input card slot (N)  | 1.3.6.1.4.1.319.10.10.20.5.N.1     | int       | Single-card & Card-based | $N \geq 0$  |
| Signal status of input source Y of input card slot N | 1.3.6.1.4.1.319.10.10.20.5.N.2.Y.1 | int       | Single-card & Card-based | 0: Not inserted<br>1: Signal available<br>2: Inserted but no signal |
| Type of input source Y of input card slot N          | 1.3.6.1.4.1.319.10.10.20.5.N.2.Y.2 | string    | Single-card & Card-based | 0: DVI<br>1: DualDVI<br>2: HDMI1.4<br>3: HDMI2.0<br>4: DP1.1        |

|   |                                    |     |                          |  |
|---|------------------------------------|-----|--------------------------|--|
|   |                                    |     |                          | 5: DP1.2<br>6: DP1.4<br>7: 3G-SDI<br>8: 6G-SDI<br>9: 12G-SDI<br>10: PIP Video<br>16: HDMI1.3<br>17: HDMI2.1<br>18: PCIE<br>19: Serdes<br>20: LVDS<br>21: VByOne<br>22: ST 2110<br>224: internal-source<br>Other value: Unknown |
| Application status of input source Y of input card slot N | 1.3.6.1.4.1.319.10.10.20.5.N.2.Y.3 | int | Single-card & Card-based | 0: Normal<br>2: Abnormal   |

### 5.1.9 Internal Source Information

| Function                                     | OID                            | Data Type | Controller Type          | Description   |
|--|--------------------------------|-----------|--------------------------|---|
| Number of internal sources (N)               | 1.3.6.1.4.1.319.10.10.50.1     | int       | Single-card & Card-based | $N \geq 1$  |
| Number of screens applying internal source N | 1.3.6.1.4.1.319.10.10.50.2.N.1 | int       | Single-card & Card-based | 0: Not applied<br>1: Applied  |
| Link status of internal source N             | 1.3.6.1.4.1.319.10.10.50.2.N.2 | int       | Single-card & Card-based | 0: Not inserted<br>1: Signal available<br>2: Inserted but no signal |

## 5.2 SNMP TRAP (Reporting)

### 5.2.1 Output Anomaly Reporting

| Function   | OID                          | Data Type | Controller Type          | Description  |
|--|------------------------------|-----------|--------------------------|--|
| Index of abnormal output card slot   | 1.3.6.1.4.1.319.10.120.N.Y   | int       | Single-card & Card-based | N: Output card slot N<br>Single-card controller: $N = 1$<br>(The number of output card slots for a single-card controller is always 1)<br>Y: Output card temperature, voltage, fan |
| Number of Ethernet port connections  | 1.3.6.1.4.1.319.10.120.N.4   | int       | Single-card & Card-based |  |
| Number of receiving cards connected of Ethernet port Y of output card slot N                 | 1.3.6.1.4.1.319.10.120.N.Y.5 | int       | Single-card & Card-based |  |
| Number of receiving cards with abnormal temperature of Ethernet port Y of output card slot N | 1.3.6.1.4.1.319.10.120.N.Y.6 | int       | Single-card & Card-based |  |
| Number of receiving cards with abnormal voltage of Ethernet port Y of output card slot N     | 1.3.6.1.4.1.319.10.120.N.Y.7 | int       | Single-card & Card-based |  |

## 5.2.2 Screen Information Reporting

| Function  | OID                        | Data Type | Controller Type          | Description |
|---|----------------------------|-----------|--------------------------|-------------|
| Number of receiving cards connected of screen N                 | 1.3.6.1.4.1.319.10.130.N.1 | int       | Single-card & Card-based |             |
| Number of receiving cards with abnormal temperature of screen N | 1.3.6.1.4.1.319.10.130.N.2 | int       | Single-card & Card-based |             |
| Number of receiving cards with abnormal voltage of screen N     | 1.3.6.1.4.1.319.10.130.N.3 | int       | Single-card & Card-based |             |

## 5.2.3 Controller Information Reporting

| Function                                | OID                        | Data Type | Controller Type          | Description  |
|---|----------------------------|-----------|--------------------------|--|
| Index of abnormal mainboard item        | 1.3.6.1.4.1.319.10.100.N   | int       | Single-card & Card-based | N: controller temperature 1, voltage 2, fan 3                  |
| Number of input cards connected         | 1.3.6.1.4.1.319.10.100.4   | int       | Single-card & Card-based |  |
| Number of output cards connected        | 1.3.6.1.4.1.319.10.100.5   | int       | Single-card & Card-based |  |
| Number of expansion cards connected     | 1.3.6.1.4.1.319.10.100.6   | int       | Single-card & Card-based |  |
| Genlock connection status               | 1.3.6.1.4.1.319.10.100.7   | int       | Single-card & Card-based | 0: Not connected<br>1: Connected                               |
| SNMP Start Time                         | 1.3.6.1.4.1.319.10.100.8   | string    | Single-card & Card-based |  |
| Index of abnormal input card slot       | 1.3.6.1.4.1.319.10.110.N.Y | int       | Single-card & Card-based | %D: input card slot N %d: input card temperature, voltage, fan |
| Number of connections of input source N | 1.3.6.1.4.1.319.10.110.N.4 | int       | Single-card & Card-based | N: controller temperature 1, voltage 2, fan 3                  |

## 5.3 SNMP SET (Read and Write)

| Function                   | OID                      | Data Type | Controller Type          | Description                 |
|----------------------------|--------------------------|-----------|--------------------------|-----------------------------|
| SNMP Trap server           | 1.3.6.1.4.1.319.10.200.1 | string    | Single-card & Card-based |                             |
| SNMP Trap reporting period | 1.3.6.1.4.1.319.10.200.2 | int       | Single-card & Card-based |                             |
| Temperature Unit           | 1.3.6.1.4.1.319.10.200.3 | int       | Single-card & Card-based | 0: Fahrenheit<br>1: Celsius |

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