# 12 HMI internal registers

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# Introduction

HMI provide four types of HMI address for user. You can use them as temporary variables of the program. The use is consistent with the way access to the PLC register. You could also reference through the address, PIStudio provides three types of such memory.

*HSW, HDW, HUW, HAW are word address, HSX, HDX, HUX, HAX are bit address.

1. **System data area (HSW):** A special register defined by the system.
2. **Data storage area (HDW/HDX):** Users store user data.
3. **System data area (HUW):** A special register defined by the system.
4. **System Data (HAW)**: System register used for power-off save.
5. **Recipe index area (RPW):** System register used for recipe index.

HMI internal registers are divided into bit address and word address, which can be accessed in two ways (take HDW as an example).

1. Access as word with the prefix "HDW".

- HDW0 means the 1st word of system data area. HDW1 means the 2nd word of system data area.

1. Access as bit with the prefix "HDX". The number before "." i". The number before Access in bit with the prefix "HD". The number before Access in bit with the prefix "HDX". The number before "." indicates the number of the word. The number after "." indicates the bit number of the word.

- HDX1020.12 means to access the system data area in bit mode, the specific location is the 13th bit of the 1020 word.

**#Note:**

- Addresses in HDX are the bits from words in HDW, so be careful when using addresses. For example, HDX1020.12 is the 13th bit to access the 1020 word. The value of this bit is the same as that of the word accessed through HDW001020. The 13th bit of this word is actually the same bit as HDX1020.12.
- The address of the bit address HDX is with a decimal point while word addresses are integers.

# Data storage area (HDW/HDX)

It is used to save the temporary data of project.

1. Access as word, and serial number range is from HDW0 to HDW299999.
2. Access as bit, and serial number range is from HDX0.0 to HDX299999.15.

# Power-down save area (HAW/HAX)

It is system registers used for power-off save.

1. Access as word, and serial number range is from HAW0 to HAW199999.
2. Access as bit, and serial number range is from HAX0.0 to HAX199999.15.

**#Note:**

- HAW/HAX is power-down retention. The register of this type is able to save the data before the power-down.
- To avoid possible device failure, do not immediately power off and reboot when configuring the power-down save addre

# Recipe index area (RPW)

It is system recipe data power-off save register. The range is from RPW000000 to RPW990450.

**#Note:**

- RPW is power-down retention. The register of this type is able to save the data before the power-down.

- To avoid possible device failure, do not immediately power off and reboot when configuring the power-down save addre

# Single user data area (HUW/HUX)

It is used for system special registers (reserved by system).

1. Access as word, and serial number range is from HUW0 to HUW199999.
2. Access as bit, and serial number range is from HUX0.0 to HUX199999.15.

**#Note:**

- HUW/HUX is a system special register, so please check the system special register list during use. Please use the address specified in the table and do not use the address which is not mentioned in the table.

| Special register address | Description | Function |
|---|---|---|
| **HUW0** | Screen switch | A single terminal controls the screen switching, and all terminals do not affect each other. |
| **HUW110~HUW119** | Addresses of the built-in keyboard | The T9 input method stores the selected seria number length |
| **HUW120~HUW129** | | The T9 input method stores the selected Chinese Pinyin length |
| **HUW135** | | Input method: first input |
| **HUW136** | | Button: T9 Chinese Pinyin page |
| **HUW137** | | Button: T9 Chinese characters page |
| **HUW138** | | Button: symbol |
| **HUW139** | | Button: switch |
| **HUW140** | | Button: Chinese characters 1 |
| **HUW142** | | Button: Chinese characters 2 |
| **HUW144** | | Button: Chinese characters 3 |
| **HUW146** | | Button: Chinese characters 4 |
| **HUW148** | | Button: Chinese characters 5 |
| **HUW150** | | Button: Chinese characters 6 |
| **HUW152** | | Button: Chinese characters 7 |
| **HUW154** | | Button: Chinese characters 8 |
| **HUW156** | | Button: Chinese characters 9 |
| **HUW158** | | Button: Chinese characters 10 |
| **HUW160~HUW169** | | Button: Chinese Pinyin 1 |
| **HUW170~HUW179** | | Button: Chinese Pinyin 2 |
| **HUW180~HUW189** | | Button: Chinese Pinyin 3 |
| **HUW190~HUW199** | | Button: Chinese Pinyin 4 |
| **HUW200~HUW699** | | Input method cache length |
| **HUW700~HUW749** | | Minimum value of the input method |
| **HUW750~HUW799** | | Maximum value of the input method |
| **HUW800** | | Case switching of the input method |
| **HUW801~HUW900** | | Input method format cache length |
| **HUW1000** | Addresses of user permission | OK (Sign in) |
| **HUW1001** | | Result of operation |
| **HUW1002~1005** | | Old password |
| **HUW1006~1009** | | New password |
| **HUW1010~1013** | | Confirm password |

| | | |
|---|---|---|
| **HUW1014~1029** | | New user name |
| **HUW1030~1157** | | States information of user permission |
| **HUW1158~1335** | | User name (Only or drop-down list object) |
| **HUW1336~1345** | | User name description or note |
| **HUW1347** | | Hidden function configurations |
| **HUW1348** | | Permission settings |
| **HUW1349** | | Current user name |
| **HUW1382** | User sign in way | • 0: Select the user name from drop-down list object for signing in<br>• 1: Enter the user name in Character Input/Display object for signing in (HUW1014) |
| **HUW1400** | Time interval from last operation | Shows how long the touch screen has not been clicked, in seconds. 32-bit unsigned integer<br>**#Note:** Clicking by different users will only clear the corresponding register of the currently operating terminal, and the registers on other terminals (such as mobile phones, computers) will not be cleared. |
| **HUW1402** | Keyboard note | It saves the text information of the keyboard notes when clicking object(HUW1402-HUW1433) |
| **HUW1436** | Current object level | Indicate current object security level |

# Special data area (HSW/HSX)

It is used for system special registers (reserved by system).

1. Access as word, and serial number range is from HSW0 to HSW49999. (HSW10000 to HSW19999 are the power-off storage areas)
2. Access as bit, and serial number range is from HSX0.0 to HSX49999.15.

**#Note:**

- HSW / HSX are a system special register, so please check the system special register list during use. Please use the address specified in the table and do not use the address which is not mentioned in the table.
- To avoid possible device failure, do not immediately power off and reboot when configuring the power-down save address.

| Address | Function | Description |
|---|---|---|
| **HSW0** | Language switch | Multiple language coul |
| **HSW1** | Beep frequency | Frequency range: 0~40 |
| **HSW2** | Beep volume | Volume range: 0~80 |
| **HSW3** | Beep time | Unit: ms |
| **HSW4** | Beep whether enable or not | • =0: Enable.<br>• =1: Disable. |
| **HSW5** | Alarm indicator | • =0: Currently no<br>• =1: Currently ala |
| **HSW6~HSW7** | Number of alarms | The number of alarm (i |
| **HSW8** | Number of unconfirmed history alarm | The number of unconfi |
| **HSW9** | Time out tip | • =0: Enable<br>• =1: Disable |
| **HSW12** | Screen swicth | • = 0: Only HSW |

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| | | • = 1: Only HUW |
| **HSW13** | Screen switch register | Equal to different value |
| **HSW24** | Reboot HMI | **1: Reboot** |
| **HSW28** | Local time: year | Range: 0~9999 (syste |
| **HSW29** | Local time: month | Range: 01~12 (system |
| **HSW30** | Local time: day | Range: 01~31 (system |
| **HSW31** | Local time: hour | Range: 0~23 (system r |
| **HSW32** | Local time: minute | Range: 0~59 (system r |
| **HSW33** | Local time: second | Range: 0~59 (system r |
| **HSW34** | Local time: week | • =0: Sunday.<br>• =1: Monday.<br>• =2: Tuesday.<br>• =3: Wednesday<br>• =4: Thursday.<br>• =5: Friday.<br>• =6: Saturday. |
| **HSW134** | Whether the Script is read through | **#Note:** If want to read-<br>• =0: Read from H<br>• =1: Read from F |
| **HSW135** | Confirm installment password | Confirm button for insta |
| **HSW151** | Installment due | Number of days to inst |
| **HSW185~200** | Installment password | Enter installment passv |
| **HSW242** | Prompt result of recipe operation<br>• Upload: Data is written from address to file<br>• Download: Data is written from a file to an address | • =1: Download re<br>• =2: Download re<br>• =3: Download re<br>• =4: Download re<br>• =5: Download re<br>• =6: Download re<br>• =7: Upload recip<br>• =8: Upload recip<br>• =9: Upload recip<br>• =10: Upload rec<br>• =11: Upload rec<br>• =12: Upload rec<br>• =13: Insert recip<br>• =14: Insert recip<br>• =15: Insert recip<br>• =16: Insert recip<br>• =17: Insert recip<br>• =18: Insert recip<br>• =19: Delete reci<br>• =20: Delete reci<br>• =21: Delete reci<br>• =22: Delete reci<br>• =23: Delete reci<br>• =24: Delete reci<br>• =25: Delete and<br>• =26: Delete reci<br>• =27: Delete reci<br>• =28: Delete reci<br>• =29: Delete reci<br>• =30: Delete reci<br>• =37: CSV recipe<br>• =38: CSV recipe |
| **HSW243** | Prompt result of recipe index | • =31: Recipe ind<br>• =32: Recipe ind<br>• =33: Recipe ind<br>• =34: Recipe ind<br>• =35: Recipe ind |

| | | |
|---|---|---|
| | | • =36: Recipe ind |
| **HSW521** | Delete graph and alarm record | • =0: No operatio<br>• =1: HSX521.0=<br>• =2: HSX521.1=<br>• =4: HSX521.2=<br>• =16: HSX521.4<br>• =32: HSX521.5 card in project s<br>• =64: HSX521.6 SD card in proje |
| **HSW522** | Copy and paste the alarm/data files in flash to the USB flash disk | • =0: No operatio<br>• =1: HSX522.0=<br>• =2: HSX522.2=<br>• =8: HSX522.3=<br>• =32: HSX522.5 |
| **HSW523** | Copy and paste the alarm/data files in flash to the SD card | • =0: No operatio<br>• =1: HSX523.0=<br>• =4: HSX523.2=<br>• =8: HSX523.3= |
| **HSW524** | Copy and paste the alarm/data files in SD card to the USB flash disk | • =0: no operatio<br>• =4: HSX524.2=<br>• =8: HSX524.3=<br>• =16: HSX524.4<br>• =32: HSX524.5 |
| **HSW525** | Copy and paste the alarm/data files in USB flash disk to SD card | • =0: no operatio<br>• =4: HSX525.2=<br>• =8: HSX525.3=<br>• =16: HSX525.4<br>• =32: HSX525.5 |
| **HSW526** | Delete file list | • =0: no operatio<br>• =1: HSX526.0=<br>• =2: HSX526.1= |
| **HSW527** | Eject USB flash disk/SD card | • =0: No operatio<br>• =1: Eject USB fl<br>• =2: Eject SD ca |
| **HSW528** | The state of USB flash disk | • =1: USB flash d<br>• =2: Ejecting US<br>• =3: USB flash d |
| **HSW529** | The state of SD card | • =1: SD card is c<br>• =2: Ejecting SD<br>• =3: SD card eje |
| **HSW550~849** | Communication control | For communication co |
| **HSW850** | Network state<br>(4G, WIFI and Ethernet) | In HMI V1.0<br>• =0: Network is c<br>• =1: only LAN co<br>• =2: WECON Clo<br>In HMI V2.0<br>• =0: Network is c<br>• =1: Network is c |
| **HSW855** | Backlight Control | • HSX855.0=1: tu<br>• HSX855.1=1: tu |
| **HSW856** | Whether to close the indirect screen when the current screen is switched to the other screen) | • =0: close the su<br>• =1: not to close. |
| **HSW857** | Permission in remote access (web page, mobile APP, cloud platform, etc.) | • =0: users could<br>• =1: users could update them.<br>• =2: users could |
| **HSW881** | Storage of Record files | It is used for controlling |

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| | | • = 0: Save to sto<br>• = 1: Don't save |
| **HSW882** | Storage device status | • HDX882.0=0 U<br>• HDX882.0=1 U<br>• HDX882.1=0 S<br>• HDX882.1=1 S |
| **HSW884** | Enter setup screen | • = 0: Do not into<br>• = 1: Enter setup |
| **HSW885** | When the control object hides the address is read failed (communication failure), set the display mode of the object | • = 0: displayed b<br>• =1: control addr<br>• =2: control addr |
| **HSW893** | User Permission Control Address, same as HUW1000 feature, please refer to chapter "User Permission"<br>**#Note:** This address can only take effect when it is operated in the real HMI, and the operation is invalid on Web/App side. | • =1: User Log in<br>• =2: Change Use<br>• =3: User Log ou<br>• =4: New user<br>• =5: Delete user<br>• =6: Add user rig<br>• =8: Add Hide fe<br>• =9: Delete Profil<br>• =10: Export Pro<br>• =11: Import prof<br>• =12: Export log<br>• =13: Delete log |
| **HSW900** | Quick update frequency settings for objects | Valid when the object i<br>Range: 1 (fastest) ~ |
| **HSW920** | Static mode Maximum periods | Numeric Input/ Display |
| **HSW921 ~ 924** | Static mode Admin key | Character Input/ Displa |
| **HSW925 ~ 928** | 1st period key (Static mode) | Character Input/ Displa |
| **HSW929 ~ 933** | 1st expiry time (Static mode) | Numeric Input/ Display |
| **HSW935 ~ 938** | 2nd period key (Static mode) | Character Input/ Displa |
| **HSW939 ~ 943** | 2nd expiry time (Static mode) | Numeric Input/ Display |
| **HSW945 ~ 948** | 3rd period key (Static mode) | Character Input/ Displa |
| **HSW949 ~ 953** | 3rd expiry time (Static mode) | Numeric Input/ Display |
| **HSW955 ~ 958** | 4th period key (Static mode) | Character Input/ Displa |
| **HSW959 ~ 963** | 4th expiry time (Static mode) | Numeric Input/ Display |
| **HSW965 ~ 968** | 5th period key (Static mode) | Character Input/ Displa |
| **HSW969 ~ 973** | 5th expiry time (Static mode) | Numeric Input/ Display |
| **HSW975 ~ 978** | 6th period key (Static mode) | Character Input/ Displa |
| **HSW979 ~ 983** | 6th expiry time (Static mode) | Numeric Input/ Display |
| **HSW985 ~ 988** | 7th period key (Static mode) | Character Input/ Displa |
| **HSW989 ~ 993** | 7th expiry time (Static mode) | Numeric Input/ Display |
| **HSW995 ~ 998** | 8th period key (Static mode) | Character Input/ Displa |
| **HSW999 ~ 1003** | 8th expiry time (Static mode) | Numeric Input/ Display |
| **HSW1005 ~1008** | 9th period key (Static mode) | Character Input/ Displa |
| **HSW1009 ~ 1013** | 9th expiry time (Static mode) | Numeric Input/ Display |
| **HSW1015 ~1018** | 10th period key (Static mode) | Character Input/ Displa |
| **HSW1019 ~ 1023** | 10th expiry time (Static mode) | Numeric Input/ Display |

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|---|---|---|
| **HSW1025 ~1028** | 11th period key (Static mode) | Character Input/ Displa |
| **HSW1029 ~ 1033** | 11th expiry time (Static mode) | Numeric Input/ Display |
| **HSW1035 ~1038** | 12th period key (Static mode) | Character Input/ Displa |
| **HSW1039 ~ 1043** | 12th expiry time (Static mode) | Numeric Input/ Display |
| **HSW1046** | Current period (Static mode) | Current period (Range |
| **HSW1047** | Save settings (Static mode) | • HSX1047.0=1:<br>• HSX1047.1=1: |
| **HSW1050~HSW1065** | The recipe name that can input csv format | Input CSV format recip recipefunction) |
| **HSW1066** | Configure the type of the CSV file imported | The CSV file type impo<br>• =0: Import custo<br>• =1: Import ordin<br>• =2: Import spec |
| **HSW1067** | Location where the CSV file is saved | Set the path of CSV file<br>• =0: In the CsvFi<br>• =1: In the CsvFi |
| **HSW1070** | The time interval (seconds) since the last time the screen was clicked | Shows how long the cu<br>**#Note:** This register |
| **HSW1073** | Corresponding key value from keyboard | Display the key value c display is being input) |
| **HSW1074** | Keyboard key status | Display the current but<br>• =0: key release<br>• =1: key press<br>• =2: Long press |
| **HSW1075** | Cursor speed | Control the cursor mov |
| **HSW1076** | Cursor x coordinate value | Record the x value at t |
| **HSW1077** | Cursor y coordinate value | Record the y value at t |
| **HSW1078** | Corresponding ASCII code for keyboard keys | Only the ASCII value o |
| **HSW1079** | Trigger to set the cursor position and set the Enter key mode | • HSX1079.0=1:<br>• HSX1079.1=0:<br>being input, Ent<br>• HSX1079.1=1 F<br>performed, and |
| **HSW1083** | Naming method for printing object screenshots | Example: The time is 2<br>• =0: Use year, m<br>201901041429<br>• =1: Name using<br>For example: 20190 |
| **HSW1086** | Control address mapping polling cycle, unit: ms | Address mapping polli<br>• When the set va<br>• When the set va |
| **HSW1087** | Control write interval in address mapping | After reading data to th range: 0~5, and defaul<br>When N more than 5<br>0 is the fastest and 5 |
| **HSW1088** | Control the write interval of script | After reading data to th and default is 2.<br>When N more than 5<br>0 is the fastest and 5 |

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| **HSW1089** | Control interval of read through | After reading data to th<br>and default is 2.<br>When N more than 5<br>0 is the fastest and 5 |
| **HSW1100** | Set the Master IP for Multi-link | High word 1 for Master |
| **HSW1101** | | High word 2 for Master |
| **HSW1102** | | High word 3 for Master |
| **HSW1103** | | High word 4 for Master |
| **HSW1104** | Control connection to Master or not for Multi-link slave device | • =1: Connect to t<br>• =0: Do not conn |
| **HSW1141** | Release alarm | • =0, Default valu<br>• =1, Release the |
| **HSW1450** | Enable objects level password function | • =0, Disable<br>• =1, Enable |
| **HSW1451** | Whether the object level passwords are independent of each other | • =0, No, high-lev<br>• = 1, Yes, high-le |
| **HSW1452** | Initialization level | Initialization level while |
| **HSW1454~1457** | Password for Level 1 | Display password for le |
| **HSW1458~1461** | Password for Level 2 | Display password for le |
| **HSW1462~1465** | Password for Level 3 | Display password for le |
| **HSW1466~1469** | Password for Level 4 | Display password for le |
| **HSW1470~1473** | Password for Level 5 | Display password for le |
| **HSW1474~1477** | Password for Level 6 | Display password for le |
| **HSW1478~1481** | Password for Level 7 | Display password for le |
| **HSW1482~1485** | Password for Level 8 | Display password for le |
| **HSW1486~1489** | Password for Level 9 | Display password for le |
| **HSW1490~1493** | Password for Level 10 | Display password for le |
| **HSW1494~1497** | Password for Level 11 | Display password for le |
| **HSW1498~1501** | Password for Level 12 | Display password for le |
| **HSW1502** | Modify password for object level | • HSX1502.0=1:<br>• HSX1502.1=1:M<br>time. |
| **HSW1603** | Number of current unreleased alarms | The number of current |
| **HSW1604** | The auxiliary judgment address when the control bit in the Object Lock fails to be read | • =0: The auxiliary<br>• =1: When the co<br>• =2: When the co<br>• =Others: The au |
| **HSW1605** | BCD format natural decimal control | Whether to display nat<br>• 0=Not enabled.<br>• 1=Enable.<br>(For example, 56.20 |
| **HSW1606** | User permission modification control | • =0: Ordinary us<br>• =1: Only the adr |
| **HSW1607** | The spacing value among the drop-down items of the drop-down list | 10 to 50 is effective, su |
| **HSW1611** | Traditional recipe transfer | • =1: download tra<br>• =2: upload the t |
| **HSW1612** | Traditional Recipe group number | Traditional Recipe grou |
| **HSW1613** | Display the status of network card | • =1: Normal<br>• =Others: Abnorm |
| **HSW1614~1623** | Download speed per second | Display the download s |

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| **HSW1624~1633** | Upnload speed per second | Display the upload spe |
| **HSW1634~1643** | Flow consumption rate | Display the total flow ra |
| **HSW1644~1653** | Download flow consumption after power on | Display the download f |
| **HSW1654~1663** | Upload flow consumption after power on | Display the upload flow |
| **HSW1664~1673** | Total flow consumption after power on | Display the total flow c |
| **HSW1674~1683** | Historical flow consumption | Display historical flow c |
| **HSW1684~1693** | Flow consumption in 10 minutes | Flow consumption in 1 |
| **HSW1694~1703** | Flow consumption in 30 minutes | Flow consumption in 3 |
| **HSW1704~1713** | Flow consumption in 3 hours | Flow consumption in 3 |
| **HSW1715** | Reset flow | • =1: Clear histori<br>• =Others: Invalid |
| **HSW1719** | Network status of Ethernet connnecting to server | • =0: Server conn<br>• =1: Server conn |
| **HSW1720** | Related IP register in WIFI network status (It is valid when HMI is connected to WIFI) | Local IP address high |
| **HSW1721** | | Local IP address high |
| **HSW1722** | | Local IP address high |
| **HSW1723** | | Local IP address high |
| **HSW1724** | | Local mask IP address |
| **HSW1725** | | Local mask IP address |
| **HSW1726** | | Local mask IP address |
| **HSW1727** | | Local mask IP address |
| **HSW1728** | | Local gateway IP addr |
| **HSW1729** | | Local gateway IP addr |
| **HSW1730** | | Local gateway IP addr |
| **HSW1731** | | Local gateway IP addr |
| **HSW1733** | Display the MAC code of current WIFI | Local MAC address hi |
| **HSW1734** | (display in hexadecimal) | Local MAC address hi |
| **HSW1735** | | Local MAC address hi |
| **HSW1736** | | Local MAC address hi |
| **HSW1737** | | Local MAC address hi |
| **HSW1738** | | Local MAC address hi |
| **HSW1739** | Display the network status of WIFI | • =0: Server conn<br>• =1: Server conn |
| **HSW1741** | Related IP register in 4Gnetwork status (It is valid when HMI is connected to 4G) | Local IP address high |
| **HSW1742** | | Local IP address high |
| **HSW1743** | | Local IP address high |
| **HSW1744** | | Local IP address high |
| **HSW1745** | | Local mask IP address |
| **HSW1746** | | Local mask IP address |
| **HSW1747** | | Local mask IP address |
| **HSW1748** | | Local mask IP address |
| **HSW1749** | | Local gateway IP addr |
| **HSW1750** | | Local gateway IP addr |
| **HSW1751** | | Local gateway IP addr |
| **HSW1752** | | Local gateway IP addr |
| **HSW1754** | Display the MAC code of current WIFI | Local MAC address hi |
| **HSW1755** | (display in hexadecimal) | Local MAC address hi |
| **HSW1756** | | Local MAC address hi |

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|---|---|---|
| **HSW1757** | | Local MAC address hi |
| **HSW1758** | | Local MAC address hi |
| **HSW1759** | | Local MAC address hi |
| **HSW1760** | Display 4G network status | • =0: Server conn<br>• =1: Server conn |
| **HSW1761** | Display 4G network signal strength | Signal strength: 0~31. |
| **HSW1852** | Control the interval in two consecutive clicks | Limit range: 1~500ms. |
| **HSW1853** | File format for exporting data records to USB flash drive or SD card | • =0: db database<br>• =1: CSV |
| **HSW1854** | High and low word conversion type | • =0: use the old<br>• =1: usie the new |
| **HSW1855** | Screen Lock prompt display control | Control whether the sc<br>• =0: display(defa<br>• =Other: no displ |
| **HSW1856** | Display map fence drawing status | • =0: no map fenc<br>• =1: The map fen<br>• =2: The map fen |
| **HSW1857** | USB disk download | • =0: download pr<br>• =1: download fir<br>• =2: enter the ba |
| **HSW10000~19999** | Power-down storage area | After restart, the data r |
| **HSW10035** | **#Note:** Only valid when the HMI is plugged into the Ethernet cable.<br>1. If Ethernet settings is enabled in project parameters, this register displays the set value.<br>2. If Ethernet settings is not enabled in project parameters, IP would automatically obtained IP.<br>3. If HMI is not connected to the network, the register is displayed as 0 whether the engineering parameters are set.<br>4. 4. All IP registers of HMI are read-only. | Local IP address high |
| **HSW10036** | | Local IP address high |
| **HSW10037** | | Local IP address high |
| **HSW10038** | | Local IP address high |
| **HSW10039** | | Local mask IP address |
| **HSW10040** | | Local mask IP address |
| **HSW10041** | | Local mask IP address |
| **HSW10042** | | Local mask IP address |
| **HSW10043** | | Local gateway address |
| **HSW10044** | | Local gateway address |
| **HSW10045** | | Local gateway address |
| **HSW10046** | | Local gateway address |
| **HSW10047** | | Local port address |
| **HSW10048** | Displays the MAC code of the current network card<br>(Hexadecimal display) | Local MAC code high v |
| **HSW10049** | | Local MAC code high v |
| **HSW10050** | | Local MAC code high v |
| **HSW10051** | | Local MAC code high v |
| **HSW10052** | | Local MAC code high v |
| **HSW10053** | | Local MAC code high v |
| **HSW10118** | TSAP settings for HMI in the Siemens logo! 8 protocol | HMI local TSAP, which |
| **HSW10119** | | HMI remote TSAP, wh |
| **HSW10461~10493** | Remote access password | 8-character remote acc |
| **HSW10494~10558** | Machine ID (Read only) | Machine ID for remote |
| **HSW10576** | Save dynamic installment settings | HSX10576.0=1: Save |
| **HSW10577** | Control address for installment | • HSX10577.0=0<br>• HSX10577.0=1<br>• HSX10577.1=0<br>• HSX10577.1=1 |
| **HSW10578-10583** | Password for dynamic installment | Character Input/ Displa |

| | | |
|---|---|---|
| **HSW10584-10586** | Expiry time of dynamic installment | Expiry time: YYYYMM |
| **HSW10587-10589** | Last expiry time of dynamic installment | Expiry time: YYYYMM |
| **HSW10590** | Background light time | Set the light time for ba<br>• =0: The screen<br>• =Others: The sc the register add |
| **HSW10591** | Backlight brightness adjustment | Backlight brightness ra |
| **HSW10603** | Set the printer to print orientation | Set the print direction:<br>• =1: Forward pri<br>• =2: Reverse pri<br>• =Other: Forwar |
| **HSW10604** | Print dot type | • =1: new firmwar<br>• =2: new firmwar<br>• =3: old firmware<br>• =4: old firmware<br>• =Other: new firm |
| **HSW10605** | Print width of printer | Set the width of the pri pixels |
| **HSW10606** | Printer instruction type | • =1: Graphic prin<br>• =2: Dot density<br>• =3: special for E |
| **HSW10607** | Printer paper cutting function | • =1: Enable<br>• =2: Disable |
| **HSW10608** | Print the alignment of the text | • =1: Left alignme<br>• =2: Center align<br>• =3: Right alignm |
| **HSW10610** | Set weconcloud server | • =0: Select the s<br>• =1: select Serve<br>• =2: select Serve |
| **HSW11750** | Set the language of the Message List prompt **(ie series)** | • =0: which is follo<br>• =1: English<br>• =2: Chinese |
| **HSW11756** | Set access permission restrictions<br>**(ig series)** | • =0: LAN or the e<br>• =1: Only LAN ac<br>• =2: Only externa |
| **HSW11757** | Enable the valid date of the dynamic installment password | • =0: Disabled<br>• =1: Enable |
| **HSW11758** | Enable Screensaver | • =0: Disabled<br>• =1: Enable |
| **HSW11759** | Screensaver interval time | Set the time how long v |
| **HSW11760** | Screensaver countdown | Display the countdown |
| **HSW11761** | Screensaver screen number | Set the screen number |

## Serial port communication configuration

| Port | Function | Address | Description |
|---|---|---|---|
| COM1 | Communication mode | HSW10061 | • =0: RS232<br>• =1: RS485<br>• =2: RS422 |
| | Baud rate | HSW10062 | • =0: 1200<br>• =1: 2400 |

| | | | |
|---|---|---|---|
| | | | • =2: 4800<br>• =3: 9600<br>• =4: 19200<br>• =5: 38400<br>• =6: 57600<br>• =7: 115200<br>• =8: 230400 |
| | Data bit | HSW10063 | • =7: 7 bit<br>• =8: 8 bit |
| | Stop bit | HSW10064 | • =1: 1 bit<br>• =2: 2 bit |
| | Check bit | HSW10065 | • =0: None<br>• =1: ODD<br>• =2: EVEN |
| | Wait timeout | HSW10066 | Unit: ms.<br>Range: 0~30000 |
| | reveive timeout | HSW10067 | Unit: ms.<br>Range: 0~30000 |
| | Retry time | HSW10068 | Unit: times.<br>Range: 0~100 |
| | Retry timeout | HSW10069 | Unit: s.<br>Range: 0~300 |
| | HMI station number | HSW10070 | |
| | PLC station number | HSW10071 | |
| COM1-2 | Communication mode | HSW10094 | • =0: RS232<br>• =1: RS485<br>• =2: RS422<br>• =6: RS485-2 |
| | Baud rate | HSW10095 | • =0: 1200<br>• =1: 2400<br>• =2: 4800<br>• =3: 9600<br>• =4: 19200<br>• =5: 38400<br>• =6: 57600 |

| | | | |
|---|---|---|---|
| | | | • =7: 115200<br>• =8: 230400 |
| | Data bit | HSW10096 | • =7: 7 bit<br>• =8: 8 bit |
| | Stop bit | HSW10097 | • =1: 1 bit<br>• =2: 2 bit |
| | Check bit | HSW10098 | • =0: None<br>• =1: ODD<br>• =2: EVEN |
| | Wait timeout | HSW10099 | Unit: ms.<br>Range: 0~30000 |
| | receive timeout | HSW10100 | Unit: ms.<br>Range: 0~30000 |
| | Retry time | HSW10101 | Unit: times.<br>Range: 0~100 |
| | Retry timeout | HSW10102 | Unit: s.<br>Range: 0~30 |
| | HMI station number | HSW10103 | |
| | PLC station number | HSW10104 | |
| COM1-3 | Communication mode | HSW10120 | • =0: RS232<br>• =1: RS485<br>• =2: RS422<br>• =6: RS485-2 |
| | Baud rate | HSW10121 | • =0: 1200<br>• =1: 2400<br>• =2: 4800<br>• =3: 9600<br>• =4: 19200<br>• =5: 38400<br>• =6: 57600<br>• =7: 115200<br>• =8: 230400 |
| | Data bit | HSW10122 | • =7: 7 bit<br>• =8: 8 bit |

| | | | |
|---|---|---|---|
| | Stop bit | HSW10123 | • =1: 1 bit<br>• =2: 2 bit |
| | Check bit | HSW10124 | • =0: None<br>• =1: ODD<br>• =2: EVEN |
| | Wait timeout | HSW10125 | Unit: ms. Range: 0~30000 |
| | receive timeout | HSW10126 | Unit: ms. Range: 0~30000 |
| | Retry time | HSW10127 | Unit: times. Range: 0~100 |
| | Retry timeout | HSW10128 | Unit: s. Range: 0~30 |
| | HMI station number | HSW10129 | |
| | PLC station number | HSW10130 | |
| COM2 | Communication mode | HSW10072 | • =0: RS232<br>• =1: RS485 |
| | Baud rate | HSW10073 | • =0: 1200<br>• =1: 2400<br>• =2: 4800<br>• =3: 9600<br>• =4: 19200<br>• =5: 38400<br>• =6: 57600<br>• =7: 115200<br>• =8: 230400 |
| | Data bit | HSW10074 | • =7: 7 bit<br>• =8: 8 bit |
| | Stop bit | HSW10075 | • =1: 1 bit<br>• =2: 2 bit |
| | Check bit | HSW10076 | • =0: None<br>• =1: ODD<br>• =2: EVEN |

| | | | |
|---|---|---|---|
| | Wait timeout | HSW10077 | Unit: ms.<br>Range: 0~30000 |
| | receive timeout | HSW10078 | Unit: ms.<br>Range: 0~30000 |
| | Retry time | HSW10079 | Unit: times.<br>Range: 0~100 |
| | Retry timeout | HSW10080 | Unit: s.<br>Range: 0~30 |
| | HMI station number | HSW10081 | |
| | PLC station number | HSW10082 | |
| COM2-2 | Communication mode | HSW10105 | • =0: RS232<br>• =1: RS485 |
| | Baud rate | HSW10106 | • =0: 1200<br>• =1: 2400<br>• =2: 4800<br>• =3: 9600<br>• =4: 19200<br>• =5: 38400<br>• =6: 57600<br>• =7: 115200<br>• =8: 230400 |
| | Data bit | HSW10107 | • =7: 7 bit<br>• =8: 8 bit |
| | Stop bit | HSW10108 | • =1: 1 bit<br>• =2: 2 bit |
| | Check bit | HSW10109 | • =0: None<br>• =1: ODD<br>• =2: EVEN |
| | Wait timeout | HSW10110 | Unit: ms.<br>Range: 0~30000 |
| | receive timeout | HSW10111 | Unit: ms.<br>Range: 0~30000 |
| | Retry time | HSW10112 | Unit: times.<br>Range: 0~100 |
| | Retry timeout | HSW10113 | Unit: s.<br>Range: 0~30 |
| | HMI station number | HSW10114 | |

| | | | |
|---|---|---|---|
| | PLC station number | HSW10115 | |
| COM3 | Communication mode | HSW10083 | • =1: RS485 |
| | Baud rate | HSW10084 | • =0: 1200<br>• =1: 2400<br>• =2: 4800<br>• =3: 9600<br>• =4: 19200<br>• =5: 38400<br>• =6: 57600<br>• =7: 115200<br>• =8: 230400 |
| | Data bit | HSW10085 | • =7: 7 bit<br>• =8: 8 bit |
| | Stop bit | HSW10086 | • =1: 1 bit<br>• =2: 2 bit |
| | Check bit | HSW10087 | • =0: None<br>• =1: ODD<br>• =2: EVEN |
| | Wait timeout | HSW10088 | Unit: ms. Range: 0~30000 |
| | receive timeout | HSW10089 | Unit: ms. Range: 0~30000 |
| | Retry time | HSW10090 | Unit: times. Range: 0~100 |
| | Retry timeout | HSW10091 | Unit: s. Range: 0~30 |
| | HMI station number | HSW10092 | |
| | PLC station number | HSW10093 | |
| CAN port | CAN1 baud rate | HSW010116 | Unit: K, the baud rate must be an integer, for example, when the baud rate required. **#Note:** If baud rate has been modified,please wait 5 seconds,then restart the HMI to take effect. |

| | | | |
|---|---|---|---|
| | | | is 250000, just enter 250. |
| | CAN2 baud rate | HSW010117 | Unit: K, the baud rate must be an integer, for example, when the baud rate required is 250000, just enter 250. |

## Ethernet communication configuration

| No. | Function | Address |
|---|---|---|
| 1 | Ethernet parameter configuration for communication number 1 in list. Configure those addresses according to connected device. After configuration, wait for 5 seconds and restart the HMI. | HSW11004<br>HSW11005<br>HSW11006<br>HSW11007<br>HSW11008<br>HSW11009<br>HSW11010 |
| 2 | Ethernet parameter configuration for communication number 2 in list. Configure those addresses according to connected device. After configuration, wait for 5 seconds and restart the HMI. | HSW11011<br>HSW11012<br>HSW11013<br>HSW11014<br>HSW11015<br>HSW11016<br>HSW11017 |
| ... | | ... |
| 32 | Ethernet parameter configuration for communication number 32 in list. Configure those addresses according to connected device. After configuration, wait for 5 seconds and restart the HMI. | HSW11221<br>HSW11222<br>HSW11223<br>HSW11224<br>HSW11225<br>HSW11226<br>HSW11227 |

**#Note:** The number of Ethernet connections supported by different HMI series varies.

## Communication control

| Communication No. | Station No. | Control bit | Communication lamp |
|---|---|---|---|
| 1 | 0~15 | HSX550.0～HSX550.15 | HSX558.0～HSX558.15 |
| | 16~31 | HSX551.0～HSX551.15 | HSX559.0～HSX559.15 |
| | 32~47 | HSX552.0～HSX552.15 | HSX560.0～HSX560.15 |
| | 48~63 | HSX553.0～HSX553.15 | HSX561.0～HSX561.15 |
| | 64～79 | HSX554.0～HSX554.15 | HSX562.0～HSX562.15 |
| | 80～95 | HSX555.0～HSX555.15 | HSX563.0～HSX563.15 |
| | 96～111 | HSX556.0～HSX556.15 | HSX564.0～HSX564.15 |
| | 112～127 | HSX557.0～HSX557.15 | HSX565.0～HSX565.15 |
| | 128～143 | HSX1150.0～HSX1150.15 | HSX1158.0～HSX1158.15 |
| | 144～159 | HSX1151.0～HSX1151.15 | HSX1159.0～HSX1159.15 |
| | 160～175 | HSX1152.0～HSX1152.15 | HSX1160.0～HSX1160.15 |
| | 176～191 | HSX1153.0～HSX1153.15 | HSX1161.0～HSX1161.15 |
| | 192～207 | HSX1154.0～HSX1154.15 | HSX1162.0～HSX1162.15 |
| | 208～223 | HSX1155.0～HSX1155.15 | HSX1163.0～HSX1163.15 |
| | 224～239 | HSX1156.0～HSX1156.15 | HSX1164.0～HSX1164.15 |
| | 240～255 | HSX1157.0～HSX1157.15 | HSX1165.0～HSX1165.15 |
| 2 | 0～15 | HSX566.0～HSX566.15 | HSX574.0～HSX574.15 |
| | 16～31 | HSX567.0～HSX567.15 | HSX575.0～HSX575.15 |
| | 32～47 | HSX568.0～HSX568.15 | HSX576.0～HSX576.15 |
| | 48～63 | HSX569.0～HSX569.15 | HSX577.0～HSX577.15 |
| | 64～79 | HSX570.0～HSX570.15 | HSX578.0～HSX578.15 |
| | 80～95 | HSX571.0～HSX571.15 | HSX579.0～HSX579.15 |
| | 96～111 | HSX572.0～HSX572.15 | HSX580.0～HSX580.15 |
| | 112～127 | HSX573.0～HSX573.15 | HSX581.0～HSX581.15 |
| | 128～143 | HSX1166.0～HSX1166.15 | HSX1174.0～HSX1174.15 |
| | 144～159 | HSX1167.0～HSX1167.15 | HSX1175.0～HSX1175.15 |
| | 160～175 | HSX1168.0～HSX1168.15 | HSX1176.0～HSX1176.15 |
| | 176～191 | HSX1169.0～HSX1169.15 | HSX1177.0～HSX1177.15 |
| | 192～207 | HSX1170.0～HSX1170.15 | HSX1178.0～HSX1178.15 |
| | 208～223 | HSX1171.0～HSX1171.15 | HSX1179.0～HSX1179.15 |
| | 224～239 | HSX1172.0～HSX1172.15 | HSX1180.0～HSX1180.15 |
| | 240～255 | HSX1173.0～HSX1173.15 | HSX1181.0～HSX1181.15 |
| 3 | 0～15 | HSX582.0～HSX582.15 | HSX590.0～HSX590.15 |
| | 16～31 | HSX583.0～HSX583.15 | HSX591.0～HSX591.15 |
| | 32～47 | HSX584.0～HSX584.15 | HSX592.0～HSX592.15 |
| | 48～63 | HSX585.0～HSX585.15 | HSX593.0～HSX593.15 |
| | 64～79 | HSX586.0～HSX586.15 | HSX594.0～HSX594.15 |
| | 80～95 | HSX587.0～HSX587.15 | HSX595.0～HSX595.15 |
| | 96～111 | HSX588.0～HSX588.15 | HSX596.0～HSX596.15 |
| | 112～127 | HSX589.0～HSX589.15 | HSX597.0～HSX597.15 |
| | 128～143 | HSX1182.0～HSX1182.15 | HSX1190.0～HSX1190.15 |
| | 144～159 | HSX1183.0～HSX1183.15 | HSX1191.0～HSX1191.15 |
| | 160～175 | HSX1184.0～HSX1184.15 | HSX1192.0～HSX1192.15 |
| | 176～191 | HSX1185.0～HSX1185.15 | HSX1193.0～HSX1193.15 |

| | | | |
|---|---|---|---|
| | 192～207 | HSX1186.0～HSX1186.15 | HSX1194.0～HSX1194.15 |
| | 208～223 | HSX1187.0～HSX1187.15 | HSX1195.0～HSX1195.15 |
| | 224～239 | HSX1188.0～HSX1188.15 | HSX1196.0～HSX1196.15 |
| | 240～255 | HSX1189.0～HSX1189.15 | HSX1197.0～HSX1197.15 |
| 4 | 0～15 | HSX598.0～HSX598.15 | HSX606.0～HSX606.15 |
| | 16～31 | HSX599.0～HSX599.15 | HSX607.0～HSX607.15 |
| | 32～47 | HSX600.0～HSX600.15 | HSX608.0～HSX608.15 |
| | 48～63 | HSX601.0～HSX601.15 | HSX609.0～HSX609.15 |
| | 64～79 | HSX602.0～HSX602.15 | HSX610.0～HSX610.15 |
| | 80～95 | HSX603.0～HSX603.15 | HSX611.0～HSX611.15 |
| | 96～111 | HSX604.0～HSX604.15 | HSX612.0～HSX612.15 |
| | 112～127 | HSX605.0～HSX605.15 | HSX613.0～HSX613.15 |
| | 128～143 | HSX1198.0～HSX1198.15 | HSX1206.0～HSX1206.15 |
| | 144～159 | HSX1199.0～HSX1199.15 | HSX1207.0～HSX1207.15 |
| | 160～175 | HSX1200.0～HSX1200.15 | HSX1208.0～HSX1208.15 |
| | 176～191 | HSX1201.0～HSX1201.15 | HSX1209.0～HSX1209.15 |
| | 192～207 | HSX1202.0～HSX1202.15 | HSX1210.0～HSX1210.15 |
| | 208～223 | HSX1203.0～HSX1203.15 | HSX1211.0～HSX1211.15 |
| | 224～239 | HSX1204.0～HSX1204.15 | HSX1212.0～HSX1212.15 |
| | 240～255 | HSX1205.0～HSX1205.15 | HSX1213.0～HSX1213.15 |
| 5 | 0～15 | HSX614.0～HSX614.15 | HSX622.0～HSX622.15 |
| | 16～31 | HSX615.0～HSX615.15 | HSX623.0～HSX623.15 |
| | 32～47 | HSX616.0～HSX616.15 | HSX624.0～HSX624.15 |
| | 48～63 | HSX617.0～HSX617.15 | HSX625.0～HSX625.15 |
| | 64～79 | HSX618.0～HSX618.15 | HSX626.0～HSX626.15 |
| | 80～95 | HSX619.0～HSX619.15 | HSX627.0～HSX627.15 |
| | 96～111 | HSX620.0～HSX620.15 | HSX628.0～HSX628.15 |
| | 112～127 | HSX621.0～HSX621.15 | HSX629.0～HSX629.15 |
| | 128～143 | HSX1214.0～HSX1214.15 | HSX1222.0～HSX1222.15 |
| | 144～159 | HSX1215.0～HSX1215.15 | HSX1223.0～HSX1223.15 |
| | 160～175 | HSX1216.0～HSX1216.15 | HSX1224.0～HSX1224.15 |
| | 176～191 | HSX1217.0～HSX1217.15 | HSX1225.0～HSX1225.15 |
| | 192～207 | HSX1218.0～HSX1218.15 | HSX1226.0～HSX1226.15 |
| | 208～223 | HSX1219.0～HSX1219.15 | HSX1227.0～HSX1227.15 |
| | 224～239 | HSX1220.0～HSX1220.15 | HSX1228.0～HSX1228.15 |
| | 240～255 | HSX1221.0～HSX1221.15 | HSX1229.0～HSX1229.15 |
| 6 | 0～15 | HSX630.0～HSX630.15 | HSX638.0～HSX638.15 |
| | 16～31 | HSX631.0～HSX631.15 | HSX639.0～HSX639.15 |
| | 32～47 | HSX632.0～HSX632.15 | HSX640.0～HSX640.15 |
| | 48～63 | HSX633.0～HSX633.15 | HSX641.0～HSX641.15 |
| | 64～79 | HSX634.0～HSX634.15 | HSX642.0～HSX642.15 |
| | 80～95 | HSX635.0～HSX635.15 | HSX643.0～HSX643.15 |
| | 96～111 | HSX636.0～HSX636.15 | HSX644.0～HSX644.15 |
| | 112～127 | HSX637.0～HSX637.15 | HSX645.0～HSX645.15 |
| | 128～143 | HSX1230.0～HSX1230.15 | HSX1238.0～HSX1238.15 |
| | 144～159 | HSX1231.0～HSX1231.15 | HSX1239.0～HSX1239.15 |
| | 160～175 | HSX1232.0～HSX1232.15 | HSX1240.0～HSX1240.15 |

| | | | |
|---|---|---|---|
| | 176～191 | HSX1233.0～HSX1233.15 | HSX1241.0～HSX1241.15 |
| | 192～207 | HSX1234.0～HSX1234.15 | HSX1242.0～HSX1242.15 |
| | 208～223 | HSX1235.0～HSX1235.15 | HSX1243.0～HSX1243.15 |
| | 224～239 | HSX1236.0～HSX1236.15 | HSX1244.0～HSX1244.15 |
| | 240～255 | HSX1237.0～HSX1237.15 | HSX1245.0～HSX1245.15 |
| 7 | 0～15 | HSX646.0～HSX646.15 | HSX654.0～HSX654.15 |
| | 16～31 | HSX647.0～HSX647.15 | HSX655.0～HSX655.15 |
| | 32～47 | HSX648.0～HSX648.15 | HSX656.0～HSX656.15 |
| | 48～63 | HSX649.0～HSX649.15 | HSX657.0～HSX657.15 |
| | 64～79 | HSX650.0～HSX650.15 | HSX658.0～HSX658.15 |
| | 80～95 | HSX651.0～HSX651.15 | HSX659.0～HSX659.15 |
| | 96～111 | HSX652.0～HSX652.15 | HSX660.0～HSX660.15 |
| | 112～127 | HSX653.0～HSX653.15 | HSX661.0～HSX661.15 |
| | 128～143 | HSX1246.0～HSX1246.15 | HSX1254.0～HSX1254.15 |
| | 144～159 | HSX1247.0～HSX1247.15 | HSX1255.0～HSX1255.15 |
| | 160～175 | HSX1248.0～HSX1248.15 | HSX1256.0～HSX1256.15 |
| | 176～191 | HSX1249.0～HSX1249.15 | HSX1257.0～HSX1257.15 |
| | 192～207 | HSX1250.0～HSX1250.15 | HSX1258.0～HSX1258.15 |
| | 208～223 | HSX1251.0～HSX1251.15 | HSX1259.0～HSX1259.15 |
| | 224～239 | HSX1252.0～HSX1252.15 | HSX1260.0～HSX1260.15 |
| | 240～255 | HSX1253.0～HSX1253.15 | HSX1261.0～HSX1261.15 |
| 8 | 0～15 | HSX662.0～HSX662.15 | HSX670.0～HSX670.15 |
| | 16～31 | HSX663.0～HSX663.15 | HSX671.0～HSX671.15 |
| | 32～47 | HSX664.0～HSX664.15 | HSX672.0～HSX672.15 |
| | 48～63 | HSX665.0～HSX665.15 | HSX673.0～HSX673.15 |
| | 64～79 | HSX666.0～HSX666.15 | HSX674.0～HSX674.15 |
| | 80～95 | HSX667.0～HSX667.15 | HSX675.0～HSX675.15 |
| | 96～111 | HSX668.0～HSX668.15 | HSX676.0～HSX676.15 |
| | 112～127 | HSX669.0～HSX669.15 | HSX677.0～HSX677.15 |
| | 128～143 | HSX1262.0～HSX1262.15 | HSX1270.0～HSX1270.15 |
| | 144～159 | HSX1263.0～HSX1263.15 | HSX1271.0～HSX1271.15 |
| | 160～175 | HSX1264.0～HSX1264.15 | HSX1272.0～HSX1272.15 |
| | 176～191 | HSX1265.0～HSX1265.15 | HSX1273.0～HSX1273.15 |
| | 192～207 | HSX1266.0～HSX1266.15 | HSX1274.0～HSX1274.15 |
| | 208～223 | HSX1267.0～HSX1267.15 | HSX1275.0～HSX1275.15 |
| | 224～239 | HSX1268.0～HSX1268.15 | HSX1276.0～HSX1276.15 |
| | 240～255 | HSX1269.0～HSX1269.15 | HSX1277.0～HSX1277.15 |
| 9 | 0~15 | HSX678.0~678.15 | HSX686.0~686.15 |
| | 16~31 | HSX679.0~679.15 | HSX687.0~687.15 |
| | 32~47 | HSX680.0~680.15 | HSX688.0~688.15 |
| | 48~63 | HSX681.0~681.15 | HSX689.0~689.15 |
| 10 | 0~15 | HSX694.0~694.15 | HSX702.0~702.15 |
| | 16~31 | HSX695.0~695.15 | HSX703.0~703.15 |
| | 32~47 | HSX696.0~696.15 | HSX704.0~704.15 |
| | 48~63 | HSX697.0~697.15 | HSX705.0~705.15 |
| 11 | 0~15 | HSX710.0~710.15 | HSX718.0~718.15 |
| | 16~31 | HSX711.0~711.15 | HSX719.0~719.15 |

| | | | |
|---|---|---|---|
| | 32~47 | HSX712.0~712.15 | HSX720.0~720.15 |
| | 48~63 | HSX713.0~713.15 | HSX721.0~721.15 |
| 12 | 0~15 | HSX726.0~726.15 | HSX734.0~734.15 |
| | 16~31 | HSX727.0~727.15 | HSX735.0~735.15 |
| | 32~47 | HSX728.0~728.15 | HSX736.0~736.15 |
| | 48~63 | HSX729.0~729.15 | HSX737.0~737.15 |
| 13 | 0~15 | HSX742.0~742.15 | HSX750.0~750.15 |
| | 16~31 | HSX743.0~743.15 | HSX751.0~751.15 |
| | 32~47 | HSX744.0~744.15 | HSX752.0~752.15 |
| | 48~63 | HSX745.0~745.15 | HSX753.0~753.15 |
| 14 | 0~15 | HSX758.0~758.15 | HSX766.0~766.15 |
| | 16~31 | HSX759.0~759.15 | HSX767.0~767.15 |
| | 32~47 | HSX760.0~760.15 | HSX768.0~768.15 |
| | 48~63 | HSX761.0~761.15 | HSX769.0~769.15 |
| 15 | 0~15 | HSX774.0~774.15 | HSX782.0~782.15 |
| | 16~31 | HSX775.0~775.15 | HSX783.0~783.15 |
| | 32~47 | HSX776.0~776.15 | HSX784.0~784.15 |
| | 48~63 | HSX777.0~777.15 | HSX785.0~785.15 |
| 16 | 0~15 | HSX790.0~790.15 | HSX798.0~798.15 |
| | 16~31 | HSX791.0~791.15 | HSX799.0~799.15 |
| | 32~47 | HSX792.0~792.15 | HSX800.0~800.15 |
| | 48~63 | HSX793.0~793.15 | HSX801.0~801.15 |