

## **EPSON OPOS ADK for .NET Manual**

# Application Development Guide MICR (TM-H6000V)

Version 1.14.6 Dec. 2017

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# **Contents**

| Chapter 1 Introduction                    | 1  |
|---|----|
| 1.1 Terminology                           | 1  |
| Chapter 2 Before Using MICR               | 2  |
| 2.1 Device Setting                        | 2  |
| 2.2 Notes and Restrictions                | 2  |
| Chapter 3 Properties, Methods, and Events | 3  |
| 3.1 Properties                            | 3  |
| 3.2 Method                                | 5  |
| 3.3 Events                                | 16 |
| Appendix A Revision history               | 17 |
| A.1 EPSON OPOS ADK for .NET 1.14.6        | 17 |
| A.2 Differences from TM-H6000IV           | 17 |
| Appendix B SetupPOS Settings              | 18 |
| B.1 "Verify Check Digit" check box        | 18 |
| B.2 "Endorsement Print" check box         | 19 |
| B.3 "MICR Character Type" combo box       | 19 |
| B.4 "Slip Clamp Time (ms)" text box       | 19 |
| Appendix C Hardware Settings              | 20 |
| C.1 DIP switch settings                   | 20 |
| C.2 Memory switch settings                | 21 |
| Appendix D Default Values of Properties   | 22 |
| Appendix E DeviceStatistics               | 23 |

# **Chapter 1 Introduction**

This section explains how to use MICR when using EPSON OPOS ADK for .NET, including any related information and special notes regarding the device.

For details on the POS for .NET API, refer to the "UnifiedPOS Retail Peripheral Architecture Version 1.14.1" specification and the MSDN "POS for .NET v1.14.1 SDK Documentation": http://www.omg.org/retail/unified-pos.htm
https://msdn.microsoft.com/en-us/library/bb429024(v=winembedded.4).aspx

## 1.1 Terminology

- "UnifiedPOS Retail Peripheral Architecture Version1.14.1" may be abbreviated as "UPOS".
- "Microsoft POS for .NET" may be abbreviated as "POS.NET".
- "EPSON OPOS ADK for .NET Version1.14.6" may be abbreviated as "OPOS.NET".
- MICR may be abbreviated as "the device".
- "The ServiceObject of MICR provided by OPOS.NET" may be abbreviated as "ServiceObject".
- "ErrorCode property of PosControlException" may be abbreviated as "ErrorCode".
- "ErrorCodeExtended property of PosControlException" may be abbreviated as "ErrorCodeExtended".
- "Exception" indicates "PosControlException".
- The EPSON original device constant used with this device is defined in "jp.co.epson.uposcommon.EpsonUPOSConst" and "jp.co.epson.uposcommon.EpsonMICRConst".
- When used at the same time as POSPrinter, cut paper may be inserted. In this
  case, read "check" in this manual as "cut paper" as necessary.
- Wired LANs and wireless LANs may be referred to as networks.

# **Chapter 2 Before Using MICR**

This chapter explains how to set up MICR, as well as notes and restrictions on using it.

## 2.1 Device Setting

After checking the hardware model number and the hardware settings, select the correct device using the SetupPOS utility. Refer to "Appendix C Hardware Settings" information on setting the hardware. Refer to "Appendix B SetupPOS Settings" information on how to use the SetupPOS utility.

#### 2.2 Notes and Restrictions

- While the EndInsertion method is executed, there may be notification from DataEvent and ErrorEvent.
- With the EndInsertion method, image data scanning is performed. During this
  time, output is not possible to devices connected to the printer other than MICR
  (Example: The LineDisplay marquee stops). However, output to LineDisplay is
  possible when the connection is USB.
- In the **EndInsertion** method, the setting of printing position is not carried out after reading the check.
- If the cover is opened and closed with a check inserted in the device, or the
  printer is out of paper, the operation differs according to the interface. When
  connected over a parallel or network, no operation occurs, but with other
  interfaces, the inserted check is ejected.
- When rebooting the device, wait for at least 5 second after turning OFF the power before powering up again.
- While the validation function is selected (the CapSlpFullslip property of POSPrinter is in the false state), executing each of the BeginInsertion / EndInsertion / BeginRemoval / EndRemoval methods fails.

# **Chapter 3 Properties, Methods, and Events**

## 3.1 Properties

The properties that differ from functions described in UPOS are shown below.

#### 3.1.1 CapPowerReporting property

#### **Description**

The notification capability of the connected device is identified.

This property is set to one of the following values.

| Value                        | Meaning                                      |  |  |
|------------------------------|--|--|--|
| PowerReporting.Standard      | "Communication compatibility" is enabled in  |  |  |
| . owom toponing out indicate | a USB connection, or the value set when      |  |  |
|                              | there is a serial connection.                |  |  |
|                              | ServiceObject can determine between and      |  |  |
|                              | provide notification of the two power        |  |  |
|                              | statuses: OFF_OFFLINE (the device is         |  |  |
|                              | turned off or offline) and ONLINE.           |  |  |
| PowerReporting.Advanced      | "Communication compatibility" is disabled in |  |  |
|                              | a USB connection, or the value set when      |  |  |
|                              | there is a parallel, USB and network         |  |  |
|                              | connection.                                  |  |  |
|                              | ServiceObject can determine between and      |  |  |
|                              | provide notification of the three power      |  |  |
|                              | statuses: OFF, OFFLINE and ONLINE.           |  |  |

#### 3.1.2 CapValidationDevice property

#### **Description**

Initialized to false during **Open**.

If equipped with endorsement printing mechanism, it is set to true when executing the **Claim** method.

#### 3.1.3 CountryCode property

#### **Description**

It is set with data showing the issuing country of the check that had just been read out by MICR.

In this ServiceObject, only the following values are set:

Value

Meaning

CheckCountryCode.Unknown The country name is unknown.

#### 3.1.4 DeviceEnabled property

#### **Description**

When the **DeviceEnabled** property is set to TRUE first after the Claim method is executed, device initialization is performed.

In the following states, device initialization cannot be done:

- Offline (e.g. Cover open, out of paper, etc.)
- Error (e.g. Paper jam)

When the **DeviceEnabled** property is set to TRUE, the printer state is notified via a **StatusUpdateEvent**.

If the **StatusUpdateEvent** for the printer stat is not defined in UPOS, however, the **StatusUpdateEvent** cannot be notified. In this case, the printer status can be found by examining the exception that is notified when the method is executed.

If the device initialization cannot be done when the **DeviceEnabled** property is set to TRUE, a device status is checked at an interval of 1 second, and it is repeated until the device initialization is performed completely.

The device initialization status can be found by enabling the **PowerNotify** property.

When StatusPowerOnline is notified by a **StatusUpdateEvent**, the initialization process is complete.

In addition, the initialization process may take several seconds depending on the connection speed and the image registration status.

#### 3.2 Method

The methods that differ from functions described in UPOS are shown below.

#### 3.2.1 Claim method

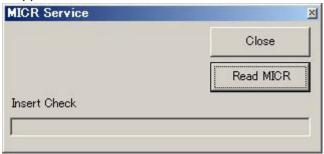
#### **Description**

The device connection state is confirmed. If the device is not connected, or if the power is OFF, an exception is thrown. In the case of a Serial connection, the device connection state cannot be confirmed. In this case, Success is always returned. In the case of a USB connection where the "Port Name Type" is set to "Device Name", if the printer is in an error state, an exception is thrown.

#### 3.2.2 CheckHealth method

#### **Description**

This ServiceObject supports only "HealthCheckLevel.Interactive". When "HealthCheckLevel.Interactive" is executed, the following dialog box appears.



When buttons are clicked, the operations are as follows:

#### • "Read MICR" button

Clicking Read MICR enables CheckHealth to enter the check insertion waiting mode. When a check is inserted, it is scanned and ejected, and the **RawData** property is displayed to "InsertCheck". If a scanning error occurs, a message indicating the type of error is displayed.

## • "Close" button

Clicking Close ends CheckHealth method.

The results are saved in the **CheckHealthText** property.

And besides, the following value is retrieved as the returned value of method.

| Value                                   | Meaning   |
|---|---|
| Interactive HCheck : Canceled           | Ended CheckHealth without scanning a single check.  |
| Interactive HCheck : Complete           | Ended CheckHealth after scanning the last check ended normally.   |
| Interactive HCheck : Error - < Message> | Ended CheckHealth after scanning the last check ended with an error. The content of the error appears as a <i>Message</i> . |

#### 3.2.3 DirectIO method

#### **Description**

**DirectIO** method can be used when the **DeviceEnabled** property is "true".

The functions that the **DirectIO** method supports are as follows.

| Command                   | Outline of function            |
|---------------------------|--------------------------------|
| MICR_DI_CLEANING          | Cleaning of MICR is executed.  |
| MICR_DI_SELECT_CHECK_FONT | Specifies the font to be read. |

### • MICR\_DI\_CLEANING command

#### **Parameter**

| command             | MICR_DI_CLEANING |
|---------------------|------------------|
| data                | Unused           |
| object(byte[] type) | Unused           |

#### **Description**

It cleans the MICR device.

When this command is executed, the cleaning sheet is taken up from the check insertion slot and cleaning process is carried out. After this, the sheet is ejected.

If this method is executed while the validation function is selected, an exception is thrown.

## • MICR\_DI\_SELECT\_CHECK\_FONT command

#### **Parameter**

command MICR\_DI\_SELECT\_CHECK\_FONT

data MICR\_DI\_MICR\_CHECK\_CMC7 or

MICR\_DI\_MICR\_CHECK\_E13B

chicot(buto[] type) Liqued

#### **Description**

Specifies the font of checks read by the MICR device. With this command, you can select the font to be read. If this command is not executed, the read font depends on the SetupPOS setting.

#### 3.2.4 ResetStatistics Method

#### • Parameter type: Microsoft.PointOfService.StatisticCategories

#### **Parameter**

Microsoft.PointOfService.StatisticCategories

Specify one of the following.

- StatisticCategories.Upos
- StatisticCategories.Manufacturer
- StatisticCategories.All

#### **Description**

Of the items included in the specified category, only the items for which O appeared for the permission reset in "Appendix-E DeviceStatistics" are reset.

All the statistics supported by the ServiceObject are defined in UPOS. If "StatisticCategories.Manufacturer" is specified, nothing is reset.

#### Parameter type: String[]

#### **Parameter**

String[]

An array of the item names to reset

#### **Description**

Of the items included in the specified category, only the items for which O appears for the reset permission in "Appendix-E DeviceStatistics" are reset when "U\_", "M\_", or an empty string is specified for item names.

If an illegal item name or non-resettable item name is included, this method reports an error. When this happens, correctly specified items are also not reset.

All the statistics supported by the ServiceObject are defined in UPOS. If "M\_" is specified, nothing is reset.

#### 3.2.5 ResetStatistic Method

#### **Description**

Of the items included in the specified category, only the items for which O appears for the reset permission in "Appendix-E DeviceStatistics" are reset when "U\_", "M\_", or an empty string is specified for item names.

If an illegal item name or non-resettable item name is specified, this method reports an error.

All the statistics supported by the ServiceObject are defined in UPOS. If "M\_" is specified, nothing is reset.

#### 3.2.6 RetrieveStatistics Method

• Parameter type: Microsoft.PointOfService.StatisticCategories

#### **Parameter**

Microsoft.PointOfService.StatisticCategories

Specify one of the following.

- StatisticCategories.Upos
- StatisticCategories.Manufacturer
- StatisticCategories.All

#### **Description**

The Statistics supported by ServiceObject are all defined in UPOS. If "StatisticCategories.Manufacturer" is specified, the minimum information specified by UPOS (the 4 items; UPOS version, manufacturer name, device name, and device category) is acquired.

#### Parameter type: String[]

#### **Parameter**

String[]

An array of the item names to retrieve

#### **Description**

If an illegal item name is included, this method reports an error.

The Statistics supported by ServiceObject are all defined in UPOS. If "M\_" is specified, the minimum information specified by UPOS (the 4 items; UPOS version, manufacturer name, device name, and device category) is acquired.

#### Parameter type: None

#### Description

The information of all defined items is retrieved.

#### 3.2.7 RetrieveStatistic Method

#### Description

If an illegal item name is included, this method reports an error.

If multiple item names separated by commas are specified (UPOS Specification), an error is reported.

The Statistics supported by ServiceObject are all defined in UPOS. If "M\_" is specified, the minimum information specified by UPOS (the 4 items; UPOS version, manufacturer name, device name, and device category) is acquired.

#### 3.2.8 UpdateStatistics Method

#### Parameter type: Microsoft.PointOfService.Statistic[]

#### **Parameter**

Microsoft.PointOfService.Statistic[] Spe

**Specifies** 

Microsoft.PointOfService.Statistic array for which item names and new values have been set.

#### **Description**

Of the items included in the specified category, only the items for which O appears for the update permission in "Appendix-E DeviceStatistics" are updated when "U\_", "M\_", or an empty string is specified for item names. If an illegal item name or non-updatable item name is included, this method reports an error. In this case, correctly specified items are also not updated.

The Statistics supported by ServiceObject are all defined by UPOS. If "M\_" is specified, nothing is updated.

#### • Parameter type: Microsoft.PointOfService.StatisticCategories

#### **Parameter**

Microsoft.PointOfService.StatisticCategories

Specify one of the following.

- StatisticCategories.Upos
- •StatisticCategories.Manufacturer
- StatisticCategories.All

Object

Specify the new value after updating.

#### **Description**

Of the items included in the specified category, only the items for which O appeared for the update permission in "Appendix-E DeviceStatistics" are updated.

All the statistics supported by the ServiceObject are defined in UPOS. If "StatisticCategories.Manufacturer" is specified, nothing is update.

#### 3.2.9 UpdateStatistic Method

#### **Description**

Of the items included in the specified category, only the items for which O appears for the update permission in "Appendix-E DeviceStatistics" are updated when "U\_", "M\_", or an empty string is specified for item names. If an illegal item name or non-updatable item name is specified, this method reports an error.

The Statistics supported by ServiceObject are all defined by UPOS. If "M\_" is specified, nothing is updated.

#### 3.2.10 BeginInsertion method

#### **Description**

The **BeginInsertion** method determines whether a check is placed on the clamp.

The device supported by the ServiceObject cannot open the clamp or change to the check insertion mode.

If this method is executed while the validation function is selected, an exception is thrown.

#### 3.2.11 EndInsertion method

#### **Description**

If check is placed in the insertion slot of device, the check is taken up and analysis carried out.

If there is no check, an exception is thrown.

If this method is executed while the validation function is selected, an exception is thrown.

#### 3.2.12 BeginRemoval method

#### **Description**

When this method is executed, the check is ejected.

The device waits until the check is removed from the device completely.

If the check is not ejected completely from the device when the time of the *timeout* parameter has elapsed, an exception with the

"ErrorCode.Timeout" ErrorCode is thrown.

#### 3.2.13 EndRemoval method

#### Description

When this method is executed, the device checks whether or not there is a check in the ejection slot.

If there is a check in the insertion slot or ejection slot of the printer, an exception is thrown.

#### 3.2.14 ClearInputProperties method

#### **Description**

The following properties are cleared by this method:

| Property Name          | Cleared Value               |  |
|------------------------|-----------------------------|--|
|                        |                             |  |
| AccountNumber Property | "" (empty character string) |  |
| Amount Property        | "" (empty character string) |  |
| BankNumber Property    | "" (empty character string) |  |
| CheckType Property     | 99 ("Unknown type")         |  |
| CountryCode Property   | 99 ("Unknown code")         |  |
| EPC Property           | "" (empty character string) |  |
| RawData Property       | "" (empty character string) |  |
| SerialNumber Property  | "" (empty character string) |  |
| TransitNumber Property | "" (empty character string) |  |

## 3.3 Events

#### 3.3.1 ErrorEvent

#### Description

In this ServiceObject, each property related to MICR data is updated immediately prior to the ErrorLocus value issuing the ErrorEvent set in ErrorLocus.Input.

The properties that are updated and the updated value obtained are as follows:

| Property Name | Value                          |  |  |
|---------------|--------------------------------|--|--|
| AccountNumber | "" (empty character string)    |  |  |
| Amount        | "" (empty character string)    |  |  |
| BankNumber    | "" (empty character string)    |  |  |
| EPC           | "" (empty character string)    |  |  |
| RawData       | MICR data that was read        |  |  |
|               | or "" (empty character string) |  |  |
| SerialNumber  | "" (empty character string)    |  |  |
| TransitNumber | "" (empty character string)    |  |  |
| CheckType     | CheckType.Unknown              |  |  |
| CountryCode   | CheckCountryCode.Unknown       |  |  |

# **Appendix A Revision history**

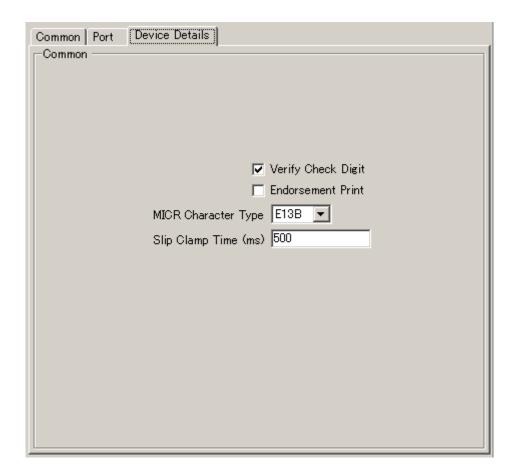
# A.1 EPSON OPOS ADK for .NET 1.14.6

- (1) Microsoft POS for .NET 1.14.1 is supported.
- (2) TM-H6000V is supported.

## A.2 Differences from TM-H6000IV

(1) Supports the Bluetooth interface.

# **Appendix B SetupPOS Settings**



# **B.1** "Verify Check Digit" check box

### **Description**

Sets for availability of CheckDigit verification function.

| Condition   | Meaning                    |
|-------------|----------------------------|
| Checked     | CheckDigit is verified     |
| Not checked | CheckDigit is not verified |

## If verification of CheckDigit is set

If error is judged in the verification of CheckDigit, notification is made as an ErrorEvent.

18

Application Development Guide

**Default:** checked

## **B.2** "Endorsement Print" check box

#### **Description**

Sets the availability of the Endorsement Print function.

| Checked Endorsement Print function present Not checked Endorsement Print function not pres |  |
|--|--|

Default: unchecked

# **B.3 "MICR Character Type" combo box**

#### **Description**

Sets the data format of the check to be read.

| Item N | leaning                    |
|--------|----------------------------|
| E13B T | he check is in E13B format |
| CMC7 T | he check is in CMC7 format |

Default: E13B

# B.4 "Slip Clamp Time (ms)" text box

### **Description**

Set the time from insertion of single sheet (execution of the **EndInsertion** method) until clamping.

| Setting Value | Meaning   |
|---------------|---|
| 0 to 6400     | Waiting time until clamping (unit: ms) Setting can be done in units of 100 ms |

Default: 500 (ms)

# **Appendix C Hardware Settings**

# C.1 DIP switch settings

Set the DIP switches of this device as follows:

#### 1) Serial interface

DIP-SW1

| No. | Setting |        |
|-----|---------|--------|
| 1   | OFF     | Rec    |
| 2   | OFF     | Fixe   |
| 3   | OFF     | Fixe   |
| 4   | OFF     | Fixe   |
| 5   | OFF     | Note ' |
| 6   | OFF     | Note 1 |
| 7   | ON      | Note 2 |
| 8   | OFF     | Note 2 |

Recommended Fixed to OFF Fixed to OFF Fixed to OFF Note 1 Note 1 Note 2 Note 2

#### DIP-SW2

| No. | Setting |        |
|-----|---------|--------|
| 1   | OFF     | Recor  |
| 2   | OFF     | Note 3 |
| 3   | OFF     | Settab |
| 4   | OFF     | Settab |
| 5   | OFF     | Fixed  |
| 6   | OFF     | Fixed  |
| 7   | OFF     | Fixed  |
| 8   | OFF     | Fixed  |
|     |         |        |

Recommended Note 3 Settable Note 4 Settable Note 4 Fixed to OFF Fixed to OFF Fixed to OFF Fixed to OFF

 $^{\text{Note1}}$  No.5 and 6 of DIP-SW1 set the parity.

**DIP Switch 1 Parity Settings** 

| SW No. | Function         | ON          | OFF        | Default |
|--------|------------------|-------------|------------|---------|
| 1-5    | Parity check     | Parity      | No parity  | OFF     |
| 1-6    | Parity selection | Even parity | Odd parity | OFF     |

 $^{\text{Note2}}$  No.7 and 8 of DIP-SW1 set the communication speed.

DIP Switch 1 Transmission Speed Switching

| SW1-7 | SW1-8 | Baud Rate (bps) |
|-------|-------|-----------------|
| ON    | ON    | 4800            |
| OFF   | ON    | 9600            |
| ON    | OFF   | 19200           |
| OFF   | OFF   | Note5           |

No.2 of Dip-SW2 sets the connection type of Line Display.

Note4 Set the printing density with 3 and 4 of DIP-SW2.

Note5 This can be configured in the TM-H6000V Utility.

## 2) USB and Other interfaces

DIP-SW1

| No. | Setting |              |
|-----|---------|--------------|
| 1   | OFF     | Fixed to OFF |
| 2   | OFF     | Fixed to OFF |
| 3   | OFF     | Fixed to OFF |
| 4   | OFF     | Fixed to OFF |
| 5   | OFF     | Fixed to OFF |
| 6   | OFF     | Fixed to OFF |
| 7   | OFF     | Fixed to OFF |
| 8   | OFF     | Fixed to OFF |

DIP-SW2

| No. | Setting |                    |
|-----|---------|--------------------|
| 1   | OFF     | Recommended        |
| 2   | OFF     | Settable Note 1    |
| 3   | OFF     | Settable Note 2    |
| 4   | OFF     | Settable Note 2    |
| 5   | OFF     | Fixed to OFF       |
| 6   | OFF     | Fixed to OFF       |
| 7   | OFF     | Fixed to OFF       |
| 8   | ON      | Fixed to ON Note 3 |
|     |         | _                  |

Note 1: Set the LineDisplay connection state with 2 of DIP-SW2.

 $^{\text{Note 2:}}\,$  Set the printing density with 3 and 4 of DIP-SW2.

Note 3: If you use UB-U06/UB-R04, Set the DIP-SW2-8 to off.

# **C.2 Memory switch settings**

Set the memory switches of the device as follows:

Mem-SW 1

| 1110111 011 1    |         |  |
|------------------|---------|--|
| No.              | Setting |  |
| 1                | ON      |  |
| 2                | -       |  |
| 3                | -       |  |
| 3<br>4<br>5<br>6 | -       |  |
| 5                | -       |  |
| 6                | -       |  |
| 7                | -       |  |
| 8                | -       |  |
|                  |         |  |

Note 1

| Mem-SW 8 |         |  |
|----------|---------|--|
| No.      | Setting |  |
| 1        | -       |  |
| 2        | -       |  |
| 3        | OFF     |  |
| 4        | OFF     |  |
| 5        | -       |  |
| 6        | -       |  |
| 7        | OFF     |  |
| 8        | OFF     |  |

Note 2 Note 2

Fixed to OFF Note 3
Fixed to OFF Note 3

Note 2 The setting is changed by the settings of the SetupPOS Utility.

Note 3 The setting is fixed by ServiceObject.

Note 1 Set to ON with serial or parallel connections, and set to OFF with network and USB connections.

# **Appendix D Default Values of Properties**

The default values of the properties of this device are shown below.

| Property Name              | Default value  | Acceptable Setting Values                            |
|----------------------------|--|--|
| AutoDisable                | false  | true<br>false  |
| CapCompareFirmwareVe rsion | false  | -  |
| CapPowerReporting          | PowerReporting.Standard or PowerReporting.Advanced (differs according to communication interface)          | -  |
| CapStatisticsReporting     | true   | -  |
| CapUpdateFirmware          | false  | -  |
| CapUpdateStatistics        | true   | -  |
| CheckHealthText            | 653  | -  |
| Claimed                    | false  | -  |
| DataCount                  | 0  | -  |
| DataEventEnabled           | false  | true<br>false  |
| DeviceDescription          | EPSON TM-H6000V MICR   | -  |
| DeviceEnabled              | false  | true<br>false  |
| DeviceName                 | TM-H6000V  | -  |
| FreezeEvents               | false  | true<br>false  |
| PowerNotify                | PowerNotification.Disabled   | PowerNotification.Disabled PowerNotification.Enabled |
| PowerState                 | PowerState.Unknown   | -  |
| State                      | ControlState.Closed  | -  |
| CapValidationDevice        | false (if equipped with endorsement printing mechanism, it is set to true when executing the Claim method) | -  |
| AccountNumber              | 6699   | -  |
| Amount                     | 439  | -  |
| BankNumber                 | 439  | -  |
| EPC                        | 439  | -  |
| RawData                    | 437  | -  |
| SerialNumber               | 437  | -  |
| TransitNumber              | 6579   | -  |
| CheckType                  | CheckType.Unknown  | -  |
| CountryCode                | CheckCountryCode.Unknown   | -  |

# **Appendix E DeviceStatistics**

The Statistics function list of this device is shown below.

#### **TM-H6000V**

| XML Definition Name     | Description                         | Reset<br>Permission | Update<br>Permission |
|-------------------------|-------------------------------------|---------------------|----------------------|
| UnifiedPOSVersion       | UPOS version                        | ×                   | ×                    |
| DeviceCategory          | Device category                     | ×                   | ×                    |
| ManufactureName         | Manufacturer name                   | ×                   | ×                    |
| ModelName               | Device name                         | ×                   | ×                    |
| SerialNumber            | Serial number                       | ×                   | ×                    |
| ManufactureDate         | Manufacture date                    | ×                   | ×                    |
| MechanicalRevision      | Device revision                     | ×                   | ×                    |
| FirmwareRevision        | Firmware version                    | ×                   | ×                    |
| Interface               | Interface                           | ×                   | ×                    |
| InstallationDate        | Installation date                   | ×                   | ×                    |
| HoursPoweredCount       | Operation time                      | 0                   | ×                    |
| CommunicationErrorCount | Communication error count           | 0                   | 0                    |
| GoodReadCount           | Number of successful MICR data      | 0                   | 0                    |
| FailedDataParseCount    | Number of failed MICR data analysis | 0                   | 0                    |
| FailedReadCount         | Number of failed MICR data          | 0                   | 0                    |

O:Permitted

× :Not permitted