

Toshiba Sensors Driver User's Guide

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About this guide

The guide describes how to install, configure, and use the Toshiba Sensors Driver 3.10.

Who should read this guide?

This guide is intended for personnel who will be using sensors information, temperatures, fan speeds and voltages, provided by Sensors Driver on a system management environment.

Summary of changes

August 2023

This release is including support for the following systems:

- Toshiba TCx® 900 4901-91x/E1x/C1x

November 2021

This release is including support for the following systems:

- Toshiba SurePOS 300 4810-x50
- Toshiba TCx® Wave 6140-10x/E1x/x2x
- Toshiba TCx® Wave 6140-x3x
- Toshiba TCx® Wave 6140-x4x
- Toshiba TCx® Wave 6140-x5x
- Toshiba TCx® 300 4810-xx0/xxA
- Toshiba TCx® 300 4810-xx1
- Toshiba TCx® 700 4900-xx6
- Toshiba TCx® 700 4900-xx7
- Toshiba TCx® 800 6200-1xx/Exx
- Toshiba TCx® 810 6201-2xx/Exx
- Toshiba TCx® 810E 4828-T2x/E2x

Chapter 1. Introduction

Toshiba POS Sensors for GNU/Linux is designed to provide information about the internals of POS systems like temperatures, fan speeds and voltages by making CIM (*Common Information Model*) client requests for system management purposes.

Supported Hardware

Toshiba POS Sensors Driver can be deployed in any POS system with GNU/Linux installed, but the driver will be capable of only provide information on the following POS systems:

System	Model Number
Toshiba SurePOS 300	4810 - 350/E50
Toshiba TCx® Wave	6140 - 100/10D/E10/E1D 6140 - 120/12D/E20/E2D
Toshiba TCx® Wave	6140 - A30/A3R/E30/E3R
Toshiba TCx® Wave	6140 - 14C/E4C 6140 - 145/E45
Toshiba TCx® Wave	6140 - 15C/E5C 6140 - 155/E55
Toshiba TCx® 300	4810 - 360/E60/36A/E6A 4810 - 370/E70/37A/E7A 4810 - 380/E80
Toshiba TCx® 300	4810 - 361/E61 4810 - 371/E71 4810 - 381/E81 4810 - 391/E91
Toshiba TCx® 700	4900 - 746/E46/C46 4900 - 786/E86/C86
Toshiba TCx® 700	4900 - 767/E67/C67 4900 - 777/E77/C77 4900 - 787/E87/C87 4900 - 797/E97/C97
Toshiba TCx® 800	6200 - 10C/E0C 6200 - 11C/E1C

	6200 - 13C/E3C 6200 - 103/E03 6200 - 113/E13 6200 - 133/E33 6200 - 105/E05 6200 - 115/E15 6200 - 135/E35 6200 - 10/E07 6200 - 117/E17 6200 - 137/E37
Toshiba TCx® 810	6201 - 25C/E5C 6201 - 26C/E6C 6201 - 29C/E9C 6201 - 253/E53 6201 - 263/E63 6201 - 293/E93 6201 - 255/E55 6201 - 265/E65 6201 - 295/E95 6201 - 257/E57 6201 - 267/E67 6201 - 297/E97
Toshiba TCx® 810E	4828 - T2C/E2C 4828 - T25/E25
Toshiba TCx® 900	4901 – 91C/913/915/917 4901 – E1C/E13/E15/E17 4901 – C1C/C15

Software Requirements

Toshiba POS Sensors Driver does not have support on 32-bit architecture. The only distributions that Toshiba POS Sensors Driver has been tested on are listed in the table below:

Operating System	<ul style="list-style-type: none"> Linux x64-bit (Kernel 4.4+)¹ <p>Packages tested on GNU/Linux distributions²: Ubuntu 22.04, SLE 12 SP5, SLE 15 SP5</p>
Libraries/Packages Dependency	<ul style="list-style-type: none"> SFCB (SMALL Footprint CIM Broker)³

¹ Best effort will be provided for no default version.

² Best effort will be provided for no tested GNU/Linux distributions.

³ If the CIM broker is not installed on the system, Sensors driver package installation will fail with an alert message to installing it. It is strongly recommended to previously install the CIM Broker alongside a client to consume and test the information.

Chapter 2. Installation and Removal Instructions.

This chapter describes the process to deploy the Toshiba Sensors Driver on the supported systems.

Installation of SFCB

It is important that SFCB (Small Footprint CIM Broker) broker be already installed on the selected system before installing Toshiba POS Sensors Driver, but if SFCB broker is not yet installed, please follow the next steps to install it on your system:

- On Ubuntu

```
$ sudo apt install sfc
```

- On SLE 12/SLE 15

```
$ sudo zypper install sbim-sfc
```

Installation and Removal Procedure

In this section you will encounter the steps to install the `.deb` or `.rpm` package depending on the Linux distribution you may be using, where **x.y.z** is the version and **r.r** is the release.

Note: Package upgrade is not yet supported on neither of the distributions mentioned here.

Installation of DEB Package

For `.deb` package-based systems like Ubuntu please follow the next steps:

1. Open a terminal.
2. Make sure there is not an existing version already installed. If so, remove it.
3. Change directory to where the package is located at.
4. To install type:

```
$ sudo dpkg -i toshiba-ipsd-linux_x.y.z-r.r_amd64.deb
```

5. This will prompt for the password.
6. Enter password and installation process will continue.

Removal of DEB Package

If the driver is no longer required, or there is a newer version that you require, you will need to remove the package that is currently installed on your system. To do so please follow the steps below:

1. Open a terminal.
2. To remove type:


```
$ sudo dpkg -r toshiba-ipsd-linux
```

```
$ sudo dpkg -P toshiba-ipsd-linux
```

3. Hit enter and the terminal will prompt for password.
4. Enter password and the driver package will be removed from your system.

Installation of RPM Package

On rpm-based packages systems such as **SLE 12** and **SLE 15** please follow the next instructions to install the driver:

1. Open a terminal.
2. Make sure there is not an existing version already installed. If so, remove it.
3. Change directory where the package is located at.
4. To install type:

```
$ sudo rpm -ivh toshiba-ipsd-linux-x.y.x-slex.x.x86_64.rpm
```

5. The terminal will prompt for password.
6. Enter password and installation process will continue.

Removal of RPM Package

If the driver is no longer required or there is a newer version that fixes some problems, you would need to remove the package that is currently installed on your system, to do so, please follow the next steps:

1. Open a terminal.
2. To remove type:

```
$ sudo rpm -e toshiba-ipsd-linux
```

3. Hit enter and the terminal will prompt for password.
4. Enter the password and the driver package will be removed from the system.

Chapter 3. Configuring the Driver

The Toshiba Sensors Driver includes configuration files for its operation, please look into the next section to know about them.

Logging

The driver logs to **/var/log/ipsd/ipsd.log**. For normal production usage there is no need to change this behaviour.

If any problems surface however additional information may be logged for purposes of support.

If any problem is present however, additional information may be logged by changing the log level property to **'4'** (Trace) at **/etc/ipsd/log.conf** for purposes of support.

Log Levels:

- 0 - Off*
- 1 - Error*
- 2 - Information (default)*
- 3 - Debug*
- 4 - Trace*

You may also change the **MaxLength** property if you want to log for any length as the logfile length might be not enough.

MaxLength=10000000 (production default)

Notes:

- Digits should not be separated.
- When reaches to MaxLength no more logging is recorded.

Configuring SFCB Server to Load Sensor Provider

There are some changes that must be done on the configuration file **/etc/sfcb/sfcb.cfg** at the option **'providerDirs:'**:

- On Ubuntu, add the following path at the end of the line if not present:

`/usr/lib/x86_64-linux-gnu`

- On SLE 12 and SLE 15, add the following path at the end of the line if not present:

`/usr/lib64`

The purpose of this is to avoid problems when CIM Broker tries to load Sensors provider.

Once configuration file has been done, restart the SFCB CIM server to enable the new configuration changes:

- On Ubuntu:

```
$ sudo systemctl restart sfcbl
```

- On SLE 12 and SLE 15:

```
$ sudo systemctl restart sblim-sfcbl
```

Chapter 4. Data Provided by Sensors Driver

Property	Description
Accuracy	Accuracy of a data retrieved from sensor
BaseUnits	Measurement units (volts, rpms, temperatures)
Caption	Sensor name caption
CreatingClassName	(e.g.: RSS_NumericSensor)
CurrentReading	Current sensor reading at data retrieval
Description	Sensor description (e.g.: VCore(0000002d) : Voltage sensor)
DeviceID	Device Identifier (e.g.: 0000002d)
Hysteresis	User statistics for sensor hysteresis
IsLinear	Tell if the sensor behaviour is linear
LowerThresholdCritical	Low critical threshold value of the sensor
LowerThresholdFatal	Low fatal threshold value of the sensor
LowerThresholdNonCritical	Low non-critical threshold value of the sensor
MaxReadable	Max data read value
MinReadable	Minimum data read value
Name [Key]	It describes the supported resolution and refresh rates supported by the monitor (e.g.: "+12V(00000025)")
NominalReading	Nominal data read value
OtherSensorTypeDescription	Other sensor type description *
RateUnits	(e.g.: 0)
Resolution	Sensor data resolution (e.g.: 10)
SensorType	Type of sensor (voltage, temperature, fan speed)
SystemCreationClassName	"Computer System"
SystemName	"Toshiba POS Sensor Drivers and System Event Log"
UnitModifier	'-3'
UpperThresholdCritical	Upper threshold critical value
UpperThresholdFatal	Upper threshold fatal value
UpperThresholdNonCritical	Upper non-critical threshold value

Chapter 5. Accessing the Sensors Information

In this section discuss how to retrieve the information and how to interact with what the Sensors Driver provides.

Enumerating Instance Names

To enumerate instance names directly from what the CIM broker can detect you can use a client, in this example **WBEMCLI** client is used to retrieve data, to obtain it you need to install it first as it doesn't come along with the SFCB broker package, to do so, please run the next command in a terminal:

- For DEB Packages based systems

```
$ sudo apt install sblim-wbemcli
```

- For RPM Packages based systems

```
$ sudo zypper install sblim-wbemcli
```

Once software client has been installed on system and having configured the CIM broker as discussed in Chapter 2, run the next command:

```
$ wbemcli ein http://localhost:5988/root/cimv2:RSS_NumericSensor
```

```
localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(0000001e) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000021) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCC3(00000024) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="+1.05V(00000027) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="+1.2V(0000002a) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCore(0000002d) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU  
Temperature(00000030) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Fan(00000033) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="System  
Temperature(00000036) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="System  
Fan(00000039) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="Enclosure Ambient  
Temperature(0000003c) "  
localhost:5988/root/cimv2:RSS_NumericSensor.Name="Power Supply  
Fan(0000003f) "
```

This command will enumerate all the instance names that belongs to **RSS_NumericSensor** class, depending on the POS system used, the enumeration of the sensors might be a little different.

Get Instance Information

Once you have all the enumerated instance names, use each sensor instance name to get each sensor information:

```
$ wbemcli gi -nl 'http://localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(0000001e)'"
```

```
localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(0000001e)"
```

```
-Generation=  
-ElementName=  
-Description="+12V(0000001e): Voltage sensor"  
-Caption="Voltage(0000001e)"  
-InstanceID=  
-PrimaryStatus=  
-OperatingStatus=  
-DetailedStatus=  
-CommunicationStatus=  
-HealthState=  
-Status=  
-StatusDescriptions=  
-OperationalStatus=  
-InstallDate=  
-TransitioningToState=12  
-AvailableRequestedStates=  
-TimeOfLastStateChange=  
-EnabledDefault=2  
-RequestedState=12  
-OtherEnabledState=  
-EnabledState=5  
-LocationIndicator=  
-AllocationState=  
-MaxQuiesceTime=  
-AdditionalAvailability=  
-IdentifyingDescriptions=  
-TotalPowerOnHours=  
-PowerOnHours=  
-OtherIdentifyingInfo=  
-ErrorCleared=  
-ErrorDescription=  
-LastErrorCode=  
-StatusInfo=  
-Availability=  
-PowerManagementCapabilities=  
-PowerManagementSupported=  
-DeviceID="0000001e"  
-CreationClassName="RSS_NumericSensor"
```

-SystemName="Toshiba POS Sensor Drivers and System Event Log"
-SystemCreationClassName="Computer System"
-SensorContext=
-PollingInterval=
-CurrentState=
-PossibleStates=
-OtherSensorTypeDescription=""
-SettableThresholds=
-EnabledThresholds=
-SupportedThresholds=
-UpperThresholdFatal=
-LowerThresholdFatal=
-UpperThresholdCritical=14400
-LowerThresholdCritical=9600
-UpperThresholdNonCritical=
-LowerThresholdNonCritical=
-Hysteresis=10
-IsLinear=TRUE
-Accuracy=500
-Tolerance=
-Resolution=10
-MinReadable=0
-MaxReadable=
-NormalMin=
-NormalMax=
-NominalReading=12000
-CurrentReading=12096
-RateUnits=0
-UnitModifier=-3
-SensorType=3
-Name="+12V(0000001e)"
-BaseUnits=5
-ClassVersion="1"

Note: Some of the properties gotten from get instance command might not be filled.

Chapter 6. List of Sensors Supported on Each System

In this section lists the sensors supported on the systems described in the [Supported Hardware](#) table.

System	Supported Sensors
SurePOS 300 4810-x50	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(00000033)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000034)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCC3(00000037)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Chipset(0000003a)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Memory(0000003d)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(00000040)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU FAN(00000043)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Temperature(00000046)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System FAN(00000049)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Ambient Temperature(0000004c)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Power Supply FAN(0000004f)"
Toshiba TCx® Wave 6140- 10x/E1x/x2x	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(00000021)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000024)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCC3(00000027)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="PCH(0000002a)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Memory(0000002d)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(00000030)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU FAN(00000033)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Enclosure Ambient Temperature(00000036)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System FAN(00000039)"
Toshiba TCx® Wave 6140- x3x	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(00000020)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000023)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCC3(00000026)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(00000029)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU FAN(0000002c)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Enclosure Ambient Temperature(0000002f)"
Toshiba TCx® Wave 6140- x4x	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(00000016)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU VCORE Volt(00000019)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU IO Volt(0000001c)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="DDR4 VPP(0000001f)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000022)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="DDR4 VDDQ(00000025)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="PCH IO Volt(00000028)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(0000002b)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU FAN(0000002e)"

	localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Ambient Temperature(00000031)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="HDD Temperature(00000034)"
Toshiba TCx® Wave x5x	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(00000016)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU VCore Volt(00000019)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU IO Volt(0000001c)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="DDR4 VPP(0000001f)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000022)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="DDR4 VDDQ(00000025)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="PCH IO Volt(00000028)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(0000002b)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU FAN(0000002e)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Ambient Temperature(00000031)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="HDD Temperature(00000034)"
Toshiba TCx® 300 4810- xx0/xxA	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(00000020)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000023)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCC3(00000026)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="PCH(00000029)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+1.5V(0000002c)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCore(0000002f)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(00000032)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Fan(00000035)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Temperature(00000038)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Fan(0000003b)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Ambient Temperature(0000003e)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Power Supply Fan(00000041)"
Toshiba TCx® 300 4810-xx1	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(0000001e)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000021)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCC3(00000024)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+1.05V(00000027)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+1.2V(0000002a)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCore(0000002d)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(00000030)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Fan(00000033)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Temperature(00000036)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Fan(00000039)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Enclosure Ambient Temperature(0000003c)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Power Supply Fan(0000003f)"
Toshiba TCx® 700 4900-xx6	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(00000020)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000023)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCC3(00000026)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="PCH(00000029)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+1.5V(0000002c)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCore(0000002f)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(00000032)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Fan(00000035)"

	localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Temperature(00000038)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Fan(0000003b)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Ambient Temperature(0000003e)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Power Supply Fan(00000041)"
Toshiba TCx® 700 4900-xx7	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(0000001e)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000021)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCC3(00000024)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+1.05V(00000027)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+1.2V(0000002a)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCore(0000002d)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(00000030)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Fan(00000033)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Temperature(00000036)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Fan(00000039)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Enclosure Ambient Temperature(0000003c)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Power Supply Fan(0000003f)"
Toshiba TCx® 800 6200- 1xx/Exx	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(00000015)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU VCore Volt(00000018)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU IO Volt(0000001b)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="DDR4 VPP(0000001e)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000021)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="DDR4 VDDQ(00000024)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="PCH IO Volt(00000027)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(0000002a)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU FAN(0000002d)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Ambient Temperature(00000030)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="SSD Temperature(00000033)"
Toshiba TCx® 810 6201- 2xx/Exx	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(00000032)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(00000033)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="PCH Volt(00000034)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Memory Volt(00000035)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCore Volt(00000036)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Fan(00000037)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(00000038)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Temperature(00000039)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Enclosure Ambient Temperature(00000040)"
Toshiba TCx® 810E 4828- T2x/E2x	localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(0000001a)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Memory Voltage(0000001d)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="PCH Voltage(00000020)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCore Voltage(00000017)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V(00000023)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(00000026)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="SSD Temperature(00000029)"

	localhost:5988/root/cimv2:RSS_NumericSensor.Name="Enclosure Ambient Temperature(0000002c)"
Toshiba TCx® 900 4901- 91x/E1x/C1x	localhost:5988/root/cimv2:RSS_NumericSensor.Name="1P05_SB (00000021)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Memory 1P2V (00000024)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+12V_S2 (00000027)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="VCC3(0000002a)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="+5V(0000001e)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU FAN(00000030)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU Temperature(0000002d)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Solid State Disk 1 Temperature(00000036)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Solid State Disk 2 Temperature(00000033)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="CPU VR Temperature(00000039)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="System Ambient Temperature(0000003c)" localhost:5988/root/cimv2:RSS_NumericSensor.Name="Vcore Voltage(0000001b)"

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