BIXOLON

Application Programming Guide

OPOS Driver

Ver. 1.09

SPP-R200

SPP-R200II

SPP-R200III

SPP-R210

SPP-R300

SPP-R310

SPP-R400

BM10E

■ Table of Contents

1. Instruction

This is a manual about how to set and configure device and to develop applications to use BIXOLON MSR with BIXOLON OPOS driver.

Before use BIXOLON MSR, set and configure MSR by using BIXOLON OPOS driver Setup Utility.

Throughout this manual, "OLE for Retail POS" is called "OPOS".
Throughout this manual, "Unified for Retail POS" is called "UPOS".

[Further Source]
OLE for Retail POS committee available from http://monroecs.com/opos.htm
Driver Update from http://www.bixolon.com

We at BIXOLON maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice..

2. Development environment

2-1 Communication Configuration

1) Communication Configuration for serial interface

You will set communication configuration in BIXOLON OPOS Setup Utility.

Printer Model	Baud Rate	Product Type
SPP-R200	9600/19200/38400/57600/115200	Optional built-in Type
SPP-R200II	9600/19200/38400/57600/115200	Optional built-in Type
SPP- R200III	9600/19200/38400/57600/115200	Optional built-in Type
SPP-R210	Not Supported	Optional built-in Type
SPP-R300	9600/19200/38400/57600/115200	Optional built-in Type
SPP-R310	9600/19200/38400/57600/115200	Optional built-in Type
SPP-R400	9600/19200/38400/57600/115200	Optional built-in Type
BM10E	Not Supported	Stand alone Type

* Check the default communication setting. For more details refer to the user manual included in the printer package.

3. Property / Method

3-1 MSR Type
Property value will be determined by the MSR type, as shown in the below table.

3-2 Property Range / Default Value

3-2-1 Capability property setting value

Capability Property	SPP-R200_MSR SPP-R200II_MSR SPP-R200III_MSR SPP-R210_MSR SPP-R300_MSR SPP-R310_MSR SPP-R400_MSR	BM10E
CapCompareFirmwareVersion	FALSE	FALSE
CapPowerReporting	TRUE	TRUE
CapStatisticsReporting	FALSE	FALSE
CapUpdateFirmware	FALSE	FALSE
CapUpdateStatistics	FALSE	FALSE
CapCardAuthentication	FALSE	FALSE
CapDataEncryption	FALSE	FALSE
CapDeviceAuthentication	FALSE	FALSE
CapISO	TRUE	TRUE
CapJISOne	FALSE	FALSE
CapJISTwo	FALSE	FALSE
CapTrackDataMasking	FALSE	FALSE
CapTransmitSentinels	TRUE	FALSE
CapWritableTracks	FALSE	FALSE

3-2-2 MSR Method

Method	SPP-R200_MSR / SPP-R200II_MSR SPP-R200III_MSR / SPP-R210_MSR SPP-R300_MSR / SPP-R310_MSR SPP-R400_MSR BM10E
authenticateDevice	X
deauthenticateDevice	X
retrieveCardProperty	X
retrieveDeviceAuthenticationData	X
updateKey	X
writeTracks	X

O: Supported   X: Not supported

4. Error Information

This section is to explain returned error information when use MSR methods.
For more details, please refer to the UPOS specifications.

4-1 ResultCode List

ClaimDevice

Method	Result Code	ResultCodeExtended
ClaimDevice	OPOS_E_ILLEGAL	0

CheckHealth

Method	Result Code	ResultCodeExtended
CheckHealth	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_OFFLINE	0

ClearOutput

Method	Result Code	ResultCodeExtended
ClearOutput	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0