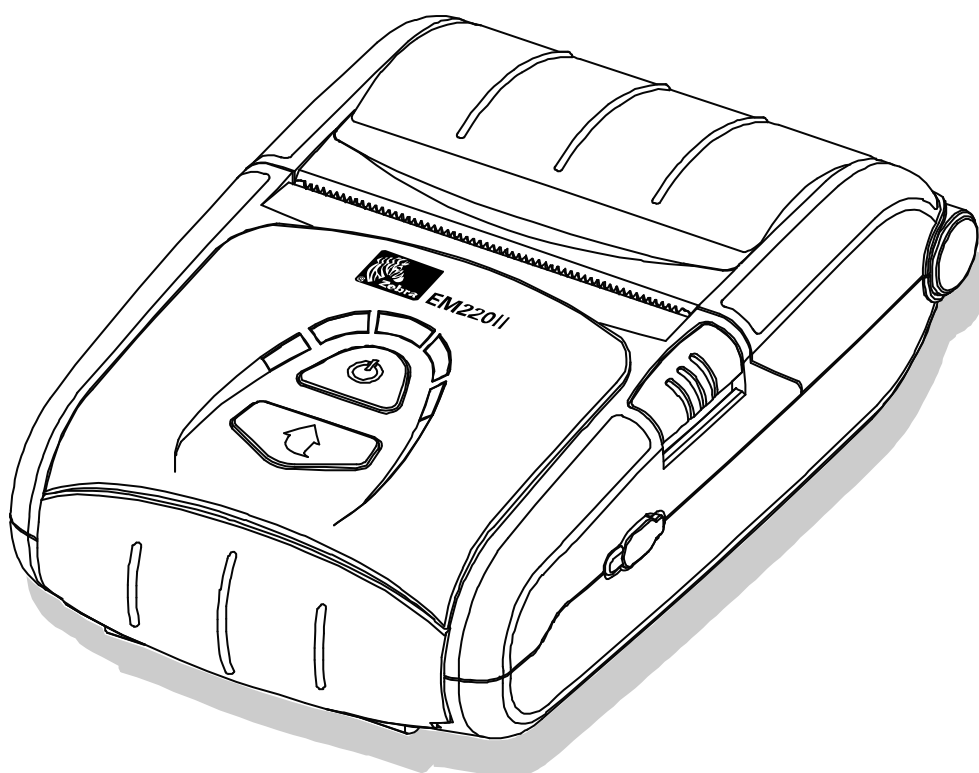




# EM220II

## OPOS Driver Application Develop Guide MSR



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## FCC Compliance Statement

NOTE: This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet or circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Exposure to Radio Frequency radiation. To conform to FCC RF exposure requirements this device shall be used in accordance with the operating conditions and instructions listed in this manual.

NOTE: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to insure compliance.

Changes or modifications to this unit not expressly approved by Zebra Technologies Corporation could void the user's authority to operate this equipment.

**Canadian Compliance Statement**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

“IC:” before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user’s satisfaction.

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## 1. Manual Information

This is a manual about how to set and configure device and to develop applications to use ZEBRA EM220II printer with OPOS driver.

Before use the printer, set and configure printer by using EM220II OPOS Setup Utility.

Throughout this manual, “OLE for Retail POS” is called “OPOS”.

Throughout this manual, “Unified for Retail POS” is called “UPOS”.

## 2. Development environment

### 2-1 Communication Configuration

1) Communication Configuration for serial interface.

You will set communication configuration in EM220II OPOS Setup Utility.

Printer Model	Baudrate	Printer Type	etc
EM220II	9600/19200/38400/57600/115200	Mono Thermal	203dpi

\* 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	EM220II MSR
CapCompareFirmwareVersion	FALSE
CapPowerReporting	TRUE
CapStatisticsReporting	FALSE
CapUpdateFirmware	FALSE
CapUpdateStatistics	FALSE
CapCardAuthentication	FALSE
CapDataEncryption	FALSE
CapDeviceAuthentication	FALSE
CapISO	TRUE
CapJISOne	FALSE
CapJISTwo	FALSE
CapTrackDataMasking	FALSE
CapTransmitSentinels	TRUE
CapWritableTracks	FALSE

##### 3-2-2 MSR Method

Method	EM220II Value
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





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