

KOAMTAC

KBM-XP67

XPAND 1D LASER BARCODE SCANNER

# USER GUIDE

SONIM XP6 & XP7

English

**sonim**<sup>®</sup>  
BUILT FOR LIFE™

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- **US patents numbers 7769917, 7954710, 8126399, 8295368, 8346979, 8347366, 8371506, 8483614, 8832323;**
- **Korea patents numbers 10-1383407, 10-1354252;**
- **UK patent numbers GB2492615, GB2514746;**
- **Korea publication 1020120128598;**

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## Child Safety

Keep out of reach of children. Do not allow children to play with mobile phones or accessories as there is potential to harm themselves and/or others. Mobile phones and accessories may contain small parts which are a potential choking hazard. Improper use of mobile phones and accessories may lead to the damage.

## Personal Medical Devices

Mobile phone and related accessory may affect the operation of cardiac pacemakers and other implanted medical equipment. Avoid placing the mobile phone over the pacemaker, for example in your breast pocket. When using the mobile phone, place it at the ear opposite to the pacemaker. If a minimum distance of 15 cm (6 inches) is kept between the mobile phone and the pacemaker, the risk of interference is limited. If you suspect that interference is taking place, immediately turn off your mobile phone. Contact your cardiologist for more information. For other medical devices, consult your physician and the manufacturer of the device. Comply with instructions to switch off the device or deactivate the RF transmitter when required, especially when posted in hospitals and airplanes. Equipment used in these places may be sensitive to radio waves emitted from the device and adversely affect their operation. Take precaution when using the mobile phone in restricted areas, such as gas stations and/or other areas containing flammable atmospheres or in close proximity to electro-explosive device.

## Disposal of Old Electrical Equipment



The symbol of the crossed-out wheeled bin indicates that this product, and any enhancements marked with this symbol, cannot be disposed of as unsorted waste and must be taken to a separate collection at their end-of-life.

## WARNING

**TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO ANY TYPE OF MOISTURE. DO NOT LOOK DIRECTLY INTO LASER OR POINT THE LASER INTO ANOTHER PERSON'S EYES. EXPOSURE TO THE BEAM MAY CAUSE EYE DAMAGE.**

## CAUTION



**Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.**

## What is in the Box?

The following items are included in the box:

- KOAMTAC KBM-XP67 1D Laser Barcode Scanner
- Assembly for BarBridge for XP6 (BarBridge for XP6 + Screws 2ea)
- Assembly for BarBridge for XP7 (BarBridge for XP7 + Screws 2ea)
- User Guide
- Quick Manual

## KBM-XP67 Barcode Scanner Components

### Front View



### Rear View



\* XPand Interface Connector is covered with a cap. Remove the cap prior to installing the KBM-XP67 to the phone.

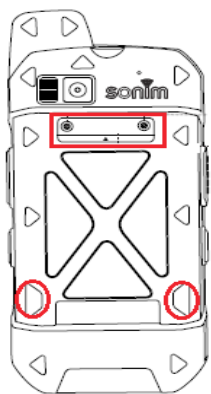
## Installing the KOAMTAC KBM-XP67 Barcode Scanner

Follow the instructions for installing the **KBM-XP67 Barcode Scanner** on the compatible XP6 or XP7 phone.

1. Unscrew the top two screws with the multi-tool screwdriver provided in the box with your Sonim XP6 or XP7 mobile phone (sold separately).

Remove the black insert plate.

Remove the two rubber covers on the back of the phone.



2. Using the multi-tool screwdriver, attach the **KBM-XP67 Barcode Scanner** to the back of phone with Screws A.



3. Using the multi-tool screwdriver, attach the bridge for the XP6 or XP7 to the back of the phone with Screws B.



**The BarBridge for the XP7 is wider than the BarBridge for the XP6.**



**Ensure to install the KBM-XP67 securely for waterproofing.**



## XPand Barcode Scanner Application

**Sonim XPand® Barcode Scanner Application** is compatible with **KOAMTAC KBM-XP67 Barcode Scanner**, which connects both hardware and software to Sonim's XPand interface on the XP6 and XP7 phones.

### Downloading

1. Go to **Google Play Store®** and download **Sonim XPand Barcode Scanner Application** on XP7 phone.

#### Short link to download from Play Store:


<https://play.google.com/store/apps/details?id=com.sonim.xpandscanner>

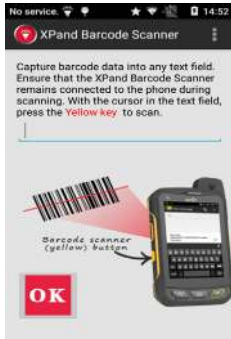
2. **XPand Barcode Scanner Application** icon (  ) is displayed in application list on the phone.

### About the User Guide

This user guide provides instructions and screenshots for the **KBM-XP67 Barcode Scanner** when used with the **XP7** phone. Most instructions apply to **KBM-XP67 Barcode Scanner** when used with the **XP6** phone, as well, except the path to access the **Settings** or **Options** menu on the **XP6** is different from the **XP7**. To access the **Settings Option** on the **XP6**, select **Options (RSK)** on the **XPand Barcode Scanner Application** main screen.


## Initiating the Scan

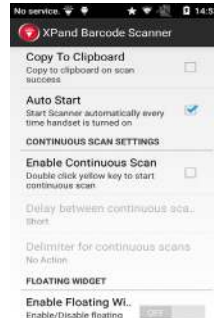
From the application menu on the phone, select **XPand Scanner** icon (  ) and the application start screen will appear:



1. While scanning, point the scanner laser light directly at the intended barcode to be read.
2. The yellow button (short press) may also initiate a scan.
3. Double press yellow key to initiate continuous scanning.
4. After a barcode is scanned, the barcode data is captured in the phone text field, in text format.

## Changing Continuous Scan Options

1. To access **Settings**, select **Options** (  ) on the **XPand Barcode Scanner Application** main screen. Select **Settings > Continuous Scan Settings**.



- **Enable Continuous Scan:** When this option is checked, double press the yellow button to initiate continuous scan mode.
- **Delay between Continuous Scans:** This is the time delay between each scan in **Continuous Scan** mode. Select from the following delay options: Short, Medium, Long, Extra Long, or Continuous.
- **Delimiter for Continuous Scans:** After a barcode is scanned in **Continuous Scan** mode, the barcode will be separated by a delimiter. Select from the following delimiter options: No Action (none), Semicolon, Comma, Space, or New Line.

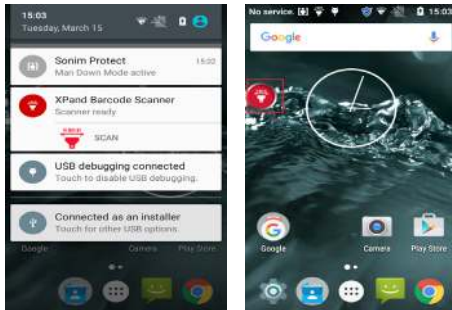


## Sonim Protect

When the **Sonim Protect** application is installed on a device, the yellow key will not initiate a barcode scan. Instead there will be a floating widget to initiate the scan.

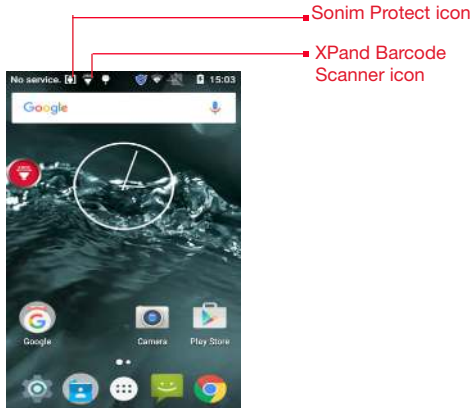
The **floating widget** (  ) is displayed on the screen as shown below.

Scanning may also be initiated through **Scan** button present in the notification bar when **Sonim Protect** is installed.



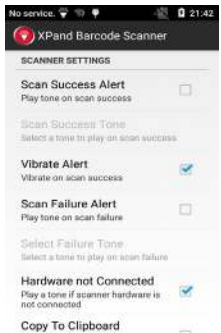
## Notification Bar

On the notification bar, the **Sonim Protect** icon (  ) and the **XPand Barcode Scanner** icon (  ) are displayed.



## Customizing XPand Barcode Scanner

To access **Settings**, select **Options** (☰) on the **XPand Barcode Scanner Application** main screen. Select **Settings > Scanner Settings**.



## Managing Default Alert Tone Settings

- **Changing Default Alert Tone (Success):** When this option is checked, a notification tone will play after a successful scan.
- **Changing Default Alert Tone (Unsuccessful):** When this option is checked, a notification tone will play after an unsuccessful scan.

## Managing Default Vibration Alert Settings

- **Changing Default Vibrate Alert (Success):** When this option is checked, the phone will vibrate after a successful scan.
- **Changing Default Vibrate Alert (Unsuccessful):** Select the notification tone played for an unsuccessful scan. Select the tone and press **OK**.

## KBM-XP67 Barcode Scanner Disconnection

If a scan is initiated while the **KBM-XP67** Barcode Scanner is not connected to the phone, a unsuccessful scan alert tone will be play.

## Copy to Clipboard

When this option is checked, all successful scan data is copied to the clipboard.

## Auto Start

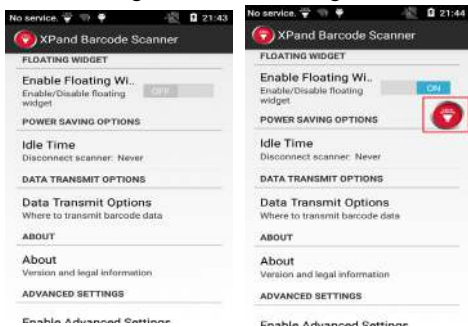
When this option is checked, the application will automatically start when the device is turned **ON**.

## Floating Widget

The **Floating widget** will appear at the top of the phone screen. It acts as an alternative **yellow key**, initiating a single or continuous scan.

1. To access **Settings**, select **Options** (⋮) on the **XPand Barcode Scanner Application** main screen.

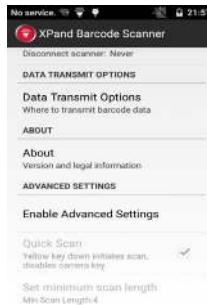
Select **Settings > Scanner Settings**.



- **Enable Floating Widget:** When set to **ON**, the widget is displayed on the phone screen. The **Floating Widget** is an alternative to the phone yellow button.

## Advanced Settings

To access **Advanced Settings**, select **Options** (⋮) on the **XPand Barcode Scanner Application** main screen. Select **Settings > Advanced Settings**.



Press yellow key downwards to initiate the scanning process. The **Quick Scan** is checked and the **Advanced Settings** is enabled. During this time, camera key is disabled.

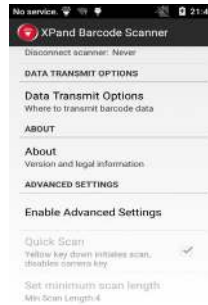


By default, the minimum scan length is set to 4.



## Data Transmission

To access **Settings**, select **Options** (☰) on the **XPand Barcode Scanner Application** main screen. Select **Settings > Data Transmit Options**.



The following 2 options are provided in the **Settings**:

- **Data Insertion:** When this option is selected, scanned barcode data is displayed on the screen.
- **Broadcast:** When this option is selected, the scanned barcode data is transmitted as a message. This option works with specific applications only.

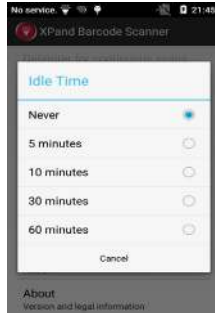


Broadcast option works with registered applications only.

## Power Management

1. To access **Settings**, select **Options** (☰) on the **KBM-XP67 Barcode Scanner Application** main screen.

Select **Settings > Scanner Settings**.



**Idle Time:** When an **Idle Time** is selected, the XPand Barcode Scanner will shutdown when unused for the amount of **Idle Time** selected. The Idle Time options are: Never, 5, 10, 30, and 60 minutes.



**KBM-XP67 Barcode Scanner** impacts the phone standby time.

### **KOAMTAC Contact Information**

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For more information, visit [www.sonimtech.com](http://www.sonimtech.com)

You can configure KBM-XP67 by scanning the special barcodes listed below under the respective categories.

## Set Symbolologies





<p><b>Enable EAN13</b></p>  <p>2000001</p>	<p><b>Disable EAN13</b></p>  <p>2100001</p>
<p><b>Enable EAN8</b></p>  <p>2000002</p>	<p><b>Disable EAN8</b></p>  <p>2100002</p>
<p><b>Enable UPCA</b></p>  <p>2000004</p>	<p><b>Disable UPCA</b></p>  <p>2100004</p>
<p><b>Enable UPCE</b></p>  <p>2000008</p>	<p><b>Disable UPCE</b></p>  <p>2100008</p>
<p><b>Enable Code39</b></p>  <p>2000010</p>	<p><b>Disable Code39</b></p>  <p>2100010</p>

<p><b>Enable ITF14</b></p>  <p>2000020</p>	<p><b>Disable ITF14</b></p>  <p>2100020</p>
<p><b>Enable Code128</b></p>  <p>2000040</p>	<p><b>Disable Code128</b></p>  <p>2100040</p>
<p><b>Enable I2 of 5</b></p>  <p>2000080</p>	<p><b>Disable I2 of 5</b></p>  <p>2100080</p>
<p><b>Enable Codabar</b></p>  <p>2000100</p>	<p><b>Disable Codabar</b></p>  <p>2100100</p>
<p><b>Enable GS1-128</b></p>  <p>2000200</p>	<p><b>Disable GS1-128</b></p>  <p>2100200</p>
<p><b>Enable Code93</b></p>  <p>2000400</p>	<p><b>Disable Code93</b></p>  <p>2100400</p>








<b>Enable Code35</b>  2000800	<b>Disable Code35</b>  2100800
<b>Enable Bookland EAN</b>  2001000	<b>Disable Bookland EAN</b>  2101000
<b>Enable EAN13 with Addon</b>  2004000	<b>Disable EAN13 with Addon</b>  2102000
<b>Enable EAN8 with Addon</b>  2004000	<b>Disable EAN8 with Addon</b>  2104000
<b>Enable UPCA with Addon</b>  2008000	<b>Disable UPCA with Addon</b>  2108000
<b>Enable UPCE with Addon</b>  2010000	<b>Disable UPCE with Addon</b>  2110000

<b>Enable GS1 Omni</b>  2020000	<b>Disable GS1 Omni</b>  2120000
<b>Enable GS1 Limited</b>  2040000	<b>Disable GS1 Limited</b>  2140000
<b>Enable GS1 Expanded</b>  2080000	<b>Disable GS1 Expanded</b>  2180000



## Barcode Options

<b>Codabar - transmit start/stop</b>  300000001	<b>Codabar - do NOT transmit start/stop</b>  310000001
<b>Convert UPCE to UPCA</b>  300000200	<b>Do NOT convert UPCE to UPCA</b>  310000200




<b>Convert EAN8 to EAN13</b>  300000400	<b>Do NOT Convert EAN8 to EAN13</b>  310000800
<b>Convert UPCE to EAN13</b>  300000800	<b>Do NOT convert UPCE to EAN13</b>  310000800
<b>Return Check Digit</b>  3000001000	<b>Do NOT Return Check Digit</b>  3100001000
<b>Verify Check Digit</b>  3000002000	<b>Do NOT Verify Check Digit</b>  3100002000
<b>Convert UPCA to EAN13</b>  300080000	<b>Do NOT Convert UPCA to EAN13</b>  310080000











<b>Verify check digit for I2of5</b>  3000400000	<b>Do NOT verify check digit for I2of5</b>  3100400000
<b>Verify check digit for Code39</b>  3000800000	<b>Do NOT verify check digit for Code39</b>  3100800000
<b>Return check digit for I2of5</b>  3004000000	<b>Do NOT return check digit for I2of5</b>  3104000000
<b>Return check digit for Code39</b>  3008000000	<b>Do NOT return check digit for Code39</b>  3108000000
<b>Return check digit for UPCE</b>  3010000000	<b>Do NOT return check digit for UPCE</b>  3110000000

<b>Return check digit for UPCA</b>  302000000	<b>Do NOT return check digit for UPCA</b>  311000000
<b>Return check digit for EAN8</b>  304000000	<b>Do NOT return check digit for EAN8</b>  314000000
<b>Return check digit for EAN13</b>  308000000	<b>Do NOT return check digit for EAN13</b>  318000000

### Delete Last Scanned Barcode






<b>Delete Last Scanned Barcode</b>  80001
---

### Scan Options

<b>Wide Scan Angle</b>  3000004000	<b>Narrow Scan Angle</b>  3100004000
<b>Normal Filter Mode</b>  3100008000	<b>High Filter Mode</b>  3000008000
<b>Enable Auto Trigger</b>  5A001	<b>Disable Auto Trigger</b>  5A010
<b>Reread Delay = Continuous</b>  5B000	<b>Reread Delay = Short</b>  5B001
<b>Reread Delay = Medium</b>  5B002	<b>Reread Delay = Long</b>  5B003

<p><b>Reread Delay = Extra Long</b></p>  <p>5B004</p>	
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## Scan Timeout

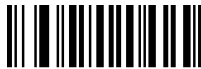



<p><b>Scan Timeout = 500msec</b></p>  <p>101F4</p>	<p><b>Scan Timeout = 1sec</b></p>  <p>103E8</p>
<p><b>Scan Timeout = 2sec</b></p>  <p>107D0</p>	<p><b>Scan Timeout = 3sec</b></p>  <p>10BB8</p>
<p><b>Scan Timeout = 4sec</b></p>  <p>10FA0</p>	<p><b>Scan Timeout = 5sec</b></p>  <p>11388</p>
<p><b>Scan Timeout = 6sec</b></p>  <p>11770</p>	<p><b>Scan Timeout = 7sec</b></p>  <p>11B58</p>



<p><b>Scan Timeout = 8sec</b></p>  <p>11F40</p>	<p><b>Scan Timeout = 9sec</b></p>  <p>12328</p>
<p><b>Scan Timeout = 10sec</b></p>  <p>12710</p>	

## Minimum Barcode Length

<p><b>Minimum Length = 2</b></p>  <p>002</p>	<p><b>Minimum Length = 3</b></p>  <p>003</p>
<p><b>Minimum Length = 4</b></p>  <p>004</p>	<p><b>Minimum Length = 5</b></p>  <p>005</p>

<p><b>Minimum Length = 6</b></p>  <p>006</p>	<p><b>Minimum Length = 7</b></p>  <p>007</p>
<p><b>Minimum Length = 8</b></p>  <p>008</p>	<p><b>Minimum Length = 9</b></p>  <p>009</p>
<p><b>Minimum Length = 10</b></p>  <p>00A</p>	<p><b>Minimum Length = 11</b></p>  <p>00B</p>
<p><b>Minimum Length = 12</b></p>  <p>00C</p>	<p><b>Minimum Length = 13</b></p>  <p>00D</p>
<p><b>Minimum Length = 14</b></p>  <p>00E</p>	<p><b>Minimum Length = 15</b></p>  <p>00F</p>

<p><b>Minimum Length = 16</b></p>  <p>010</p>	<p><b>Minimum Length = 17</b></p>  <p>011</p>
<p><b>Minimum Length = 18</b></p>  <p>012</p>	<p><b>Minimum Length = 19</b></p>  <p>013</p>
<p><b>Minimum Length = 20</b></p>  <p>014</p>	<p><b>Minimum Length = 21</b></p>  <p>015</p>
<p><b>Minimum Length = 22</b></p>  <p>016</p>	<p><b>Minimum Length = 23</b></p>  <p>017</p>
<p><b>Minimum Length = 24</b></p>  <p>018</p>	<p><b>Minimum Length = 25</b></p>  <p>019</p>

<b>Minimum Length = 26</b>  01A	<b>Minimum Length = 27</b>  01B
<b>Minimum Length = 28</b>  01C	<b>Minimum Length = 29</b>  01D
<b>Minimum Length = 30</b>  01E	<b>Minimum Length = 31</b>  01F
<b>Minimum Length = 32</b>  020	<b>Minimum Length = 33</b>  021
<b>Minimum Length = 34</b>  022	<b>Minimum Length = 35</b>  023

**Minimum Length = 36**


024

### Security Level

**Security level = 1**


41

**Security level = 2**


42

**Security level = 3**


43

**Security level = 4**


44

### Data Process - Wedge/Store & Enter Key

**Wedge Only**


82000


**Wedge & Store Always**


82001

<b>Store Only</b>  82002	
--	--

<b>AIM ID In Suffix</b>  8B002	
---	--

### Data Process - Data Edit

<b>Start Prefix Enter</b>  83000	<b>Start Suffix Enter</b>  83001
<b>Finish Prefix/Suffix Enter</b>  83002	<b>Cancel Prefix/Suffix Enter</b>  83003
<b>Delete Prefix</b>  83004	<b>Delete Suffix</b>  83005
<b>AIM ID None</b>  8B000	<b>AIM ID In Prefix</b>  8B001

### Data Process - Data Format & Handshake

<b>Data format = Barcode only</b>  84001	<b>Data format = Packet data</b>  84010
---	--

### Data Process - Termination Character & Duplicate Check



22

<b>Termination Character = None</b>  88000	<b>Termination Character = CR</b>  88001
<b>Termination Character = LF</b>  88002	<b>Termination Character = CR+LF</b>  88003





<b>Termination Character = Tab</b>  88004	
<b>Enable Duplicate Check</b>  89001	<b>Disable Duplicate Check</b>  89010








## System

<b>Erase Memory</b>  50003	
<b>Enable Auto Erase</b>  5F001	<b>Disable Auto Erase</b>  5F010





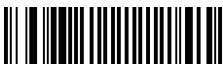

<b>Factory Default</b>  57001	<b>KDC Reset</b>  A0000
--	--

## Sleep Timeout

<b>Sleep Timeout = Disable</b>  51000	<b>Sleep Timeout = 1sec</b>  51001
<b>Sleep Timeout = 2sec</b>  51002	<b>Sleep Timeout = 3sec</b>  51003
<b>Sleep Timeout = 4sec</b>  51004	<b>Sleep Timeout = 5sec</b>  51005

<p><b>Sleep Timeout = 10sec</b></p>  <p>5100A</p>	<p><b>Sleep Timeout = 20sec</b></p>  <p>51014</p>
<p><b>Sleep Timeout = 30sec</b></p>  <p>5101E</p>	<p><b>Sleep Timeout = 1min</b></p>  <p>5103C</p>
<p><b>Sleep Timeout = 2min</b></p>  <p>51078</p>	<p><b>Sleep Timeout = 5min</b></p>  <p>5112C</p>
<p><b>Sleep Timeout = 10min</b></p>  <p>51258</p>	

**ETC**

<p><b>Enable Reverse Direction</b></p>  <p>300000002</p>	<p><b>Disable Reverse Direction</b></p>  <p>310000002</p>
<p><b>Enable Verify check digit</b></p>  <p>300200000</p>	<p><b>Disable Verify check digit</b></p>  <p>310200000</p>
<p><b>Enable Return check digit</b></p>  <p>300100000</p>	<p><b>Disable Return check digit</b></p>  <p>310100000</p>

**Function**

<p><b>F1</b></p>  <p>7001</p>	<p><b>F2</b></p>  <p>7002</p>
--	--



<b>F3</b>  7003	<b>F4</b>  7004
<b>F5</b>  7005	<b>F6</b>  7006
<b>F7</b>  7007	<b>F8</b>  7008
<b>F9</b>  7009	<b>F10</b>  700A
<b>F11</b>  700B	<b>F12</b>  700C

## Numbers










<b>0</b>  7130	<b>1</b>  7131
<b>2</b>  7132	<b>3</b>  7133
<b>4</b>  7134	<b>5</b>  7135
<b>6</b>  7136	<b>7</b>  7137

<p><b>8</b></p>  <p>7138</p>	<p><b>9</b></p>  <p>7139</p>
--	---

### Lower Case Alphabets











<p><b>a</b></p>  <p>7161</p>	<p><b>b</b></p>  <p>7162</p>
<p><b>c</b></p>  <p>7163</p>	<p><b>d</b></p>  <p>7164</p>
<p><b>e</b></p>  <p>7165</p>	<p><b>f</b></p>  <p>7166</p>

<p><b>g</b></p>  <p>7167</p>	<p><b>h</b></p>  <p>7168</p>
<p><b>i</b></p>  <p>7169</p>	<p><b>j</b></p>  <p>716A</p>
<p><b>k</b></p>  <p>716B</p>	<p><b>l</b></p>  <p>716C</p>
<p><b>m</b></p>  <p>716D</p>	<p><b>n</b></p>  <p>716E</p>
<p><b>o</b></p>  <p>716E</p>	<p><b>p</b></p>  <p>7170</p>

<b>q</b>  7171	<b>r</b>  7172
<b>s</b>  7173	<b>t</b>  7174
<b>u</b>  7175	<b>v</b>  7176
<b>w</b>  7177	<b>x</b>  7178
<b>y</b>  7179	<b>z</b>  717A









## Upper Case Alphabets

<b>A</b>  7141	<b>B</b>  7142
<b>C</b>  7143	<b>D</b>  7144
<b>E</b>  7145	<b>F</b>  7146
<b>G</b>  7147	<b>H</b>  7148

<b>I</b>  7149	<b>J</b>  714A
<b>K</b>  714B	<b>L</b>  714C
<b>M</b>  714D	<b>N</b>  714E
<b>O</b>  714F	<b>P</b>  7150
<b>Q</b>  7151	<b>R</b>  7152

<b>S</b>  7153	<b>T</b>  7154
<b>U</b>  7155	<b>V</b>  7156
<b>W</b>  7157	<b>X</b>  7158
<b>Y</b>  7159	<b>Z</b>  715A

## Control Character

<b>BS</b>  7108	<b>TAB</b>  7109
<b>LF</b>  710A	<b>VT</b>  710B
<b>CR</b>  710D	<b>ESC</b>  711B
<b>Space</b>  7120	<b>DEL</b>  717F

## Shift + Tab



7111

## Symbol Character



7121



7122



7123



7124



7125



7126

€  7127	(  7128
)  7129	*  712A
+  712B	,  712A
-  712D	.  712E
/  712F	:  713A

;  713B	<  713C
=  713D	>  713E
?  713F	@  7140
[  715B	\  715C
]  715D	^  715E

{  717B	  717C
}  717D	~  717E
<b>Start String</b>  7201	<b>Stop String</b>  7210

### Barcode String Construction Guidelines

- You can compose a string of maximum 16 characters.
- The string should be composed by scanning the “Start-String”, number/alphabet/special characters, and “Stop-String” special barcodes.
- The **KBM-XP67** will abort string composition if the user do not scan “Stop-String” in one minute after scanning Start-String and number/alphabet/special characters.