| Classification | ☐ tDS/tGW/tSH ☐ PETL/tET/tPET/ET-2200 ☐ DS/PDS/PPDS ☐ tM-752N<br>☐ I/O Card ☐ VXC Card ☑ TouchPAD/HMIWorks ☐ VxComm | | | | |
|---|---|---|---|---|---|
| **Author** | Tammy | **Date** | 2018-11-13 | **No.** | FAQ030 |

# Q: How to show multilingual text with ebFont on TouchPAD?

**A:** There are two ways to support multilingual feature in HMIWorks:

| Method | Descriptions | Support Languages |
|---|---|---|
| **Built-in fonts (Limited Languages)** | Use the HMIWorks built-in fonts to display multilingual text.<br>**Note: Only one language can be selected when builing a program.** | **English**<br>**Russian**<br>**German/Italian/Spanish**<br>**French** |
| **Install ebFont** | Install ebFont into TouchPAD to support more languages, such as CJK (Chinese/Japanese/Korean), Russian, German/Italian/Spanish, French and others. All multilingual characters can be used on the same time.<br><br>**This feature supports the following TouchPAD models:**<br>**TPD-28xU-H/Mx, TPD-430-H, TPD-433-H/Mx, TPD-43xF-H, TPD-703 (-64).**<br>**VPD-13x-H, VPD-14x-H, VPD-173N/X (-64).** | **Chinese**<br>**Japanese**<br>**Korean**<br>**.....**<br>**Other Languages** |

The following is a detailed description of how to install ebFont to add multilingual feature.

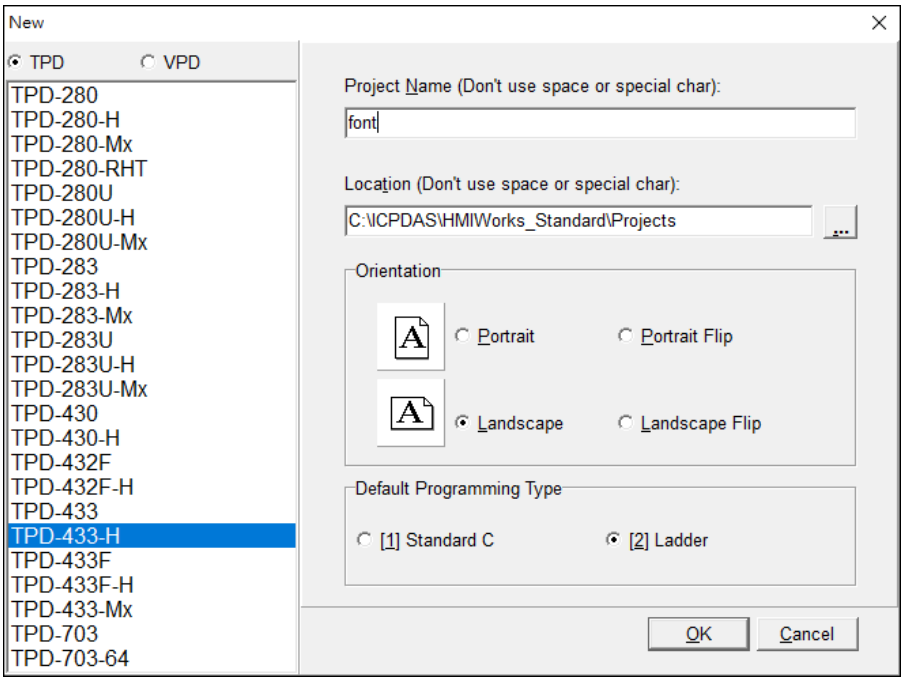
**Step 1:** Depending on your TouchPAD model, download the correct **"ebFont_xxx.bix"** file first.
The location of the download address is shown below:

https://www.icpdas.com/web/product/download/software/development_tool/hmiworks/software/demo/ebFonts.zip

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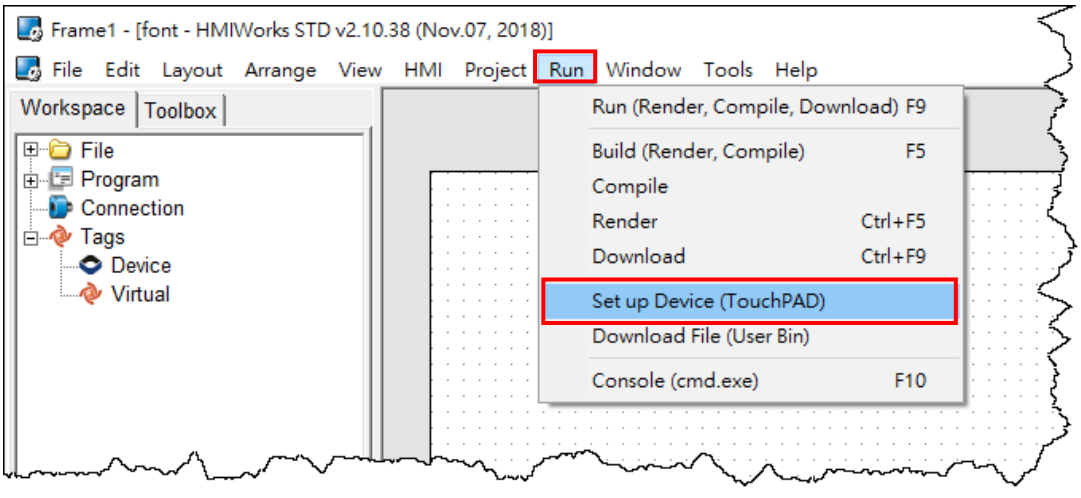

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**Step 2:** Launch the HMIWorks Standard software. And based on your TouchPAD device, open an existing or create a new project. Here, we create a new project as an example.




**Step 3:** Download the **"ebFont_xxx.bix"** file to the TouchPAD device (e.g., TPD-433-H).

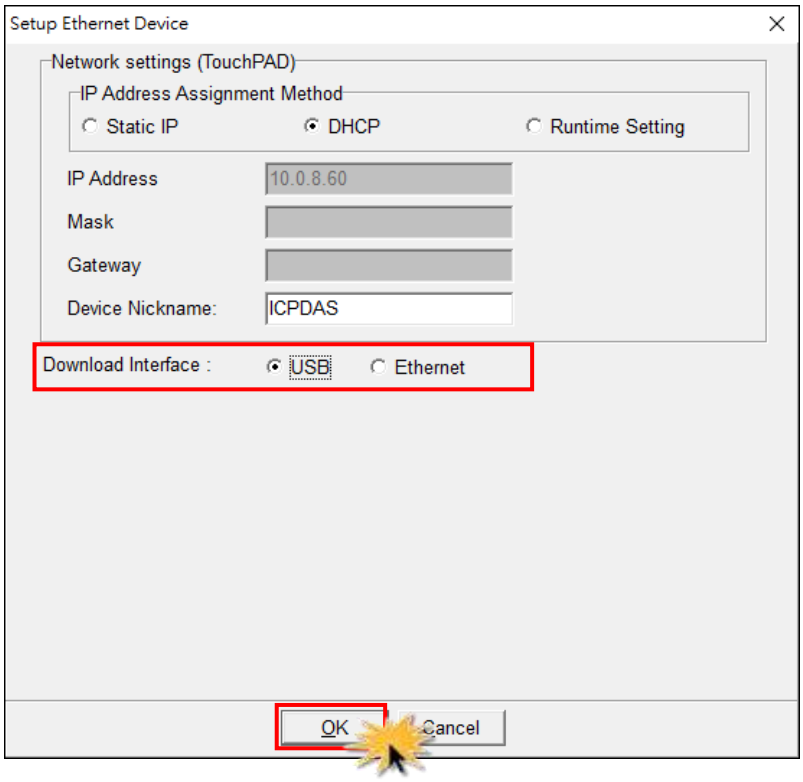
**1.** For the TPD-433-H device, use menu item **"Run → Setup Device (TouchPAD)"** to select Ethernet or USB download interface first.




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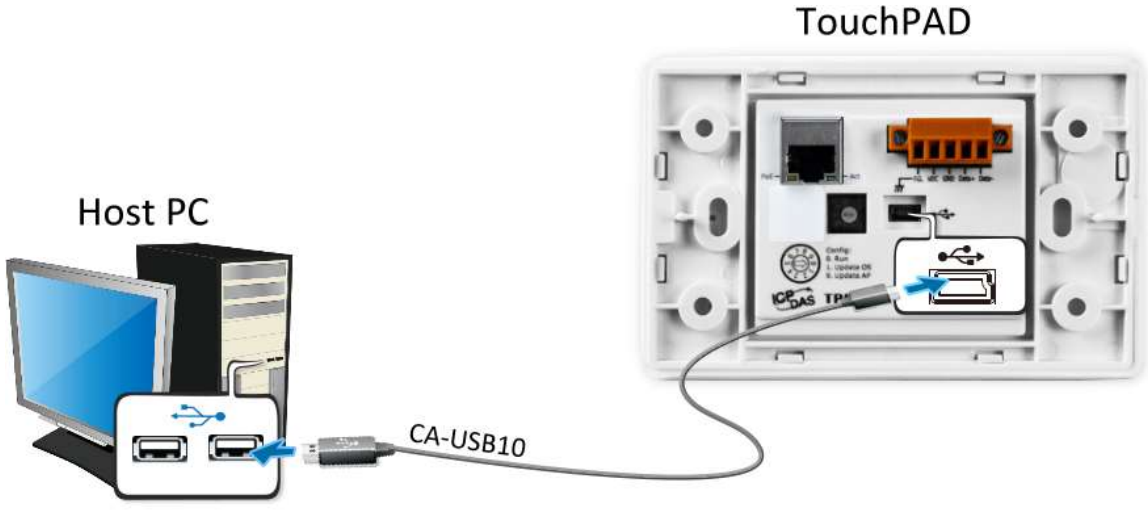
**2.** Select the **“USB”** in the **“Download Interface”** field and click the **“OK”** button.




⚠Note: Here, the USB download is used as an example. For the Ethernet download method, refer to the Section 3.4.2 Setup Ethernet-downloaded Devices on TouchPAD hardware user manual.

**3.** Connect a power supply to the TPD-433-H device.

**4.** Connect the TPD-433-H device to the **Host PC** using a **CA-USB10 cable**.

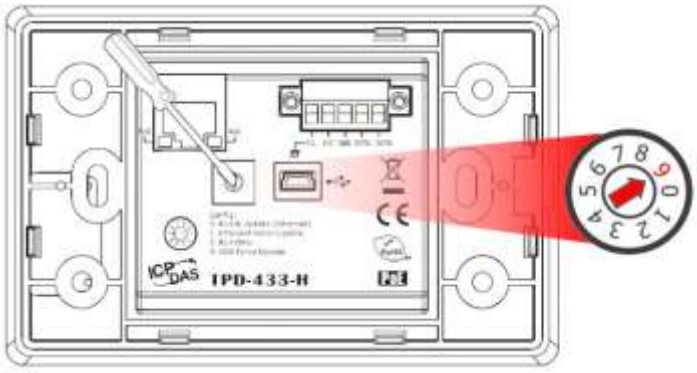



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**5. Power off** the TPD-433-H device and use a flat-head screwdriver to set the **Rotary Switch to position 9 (USB update mode)**.

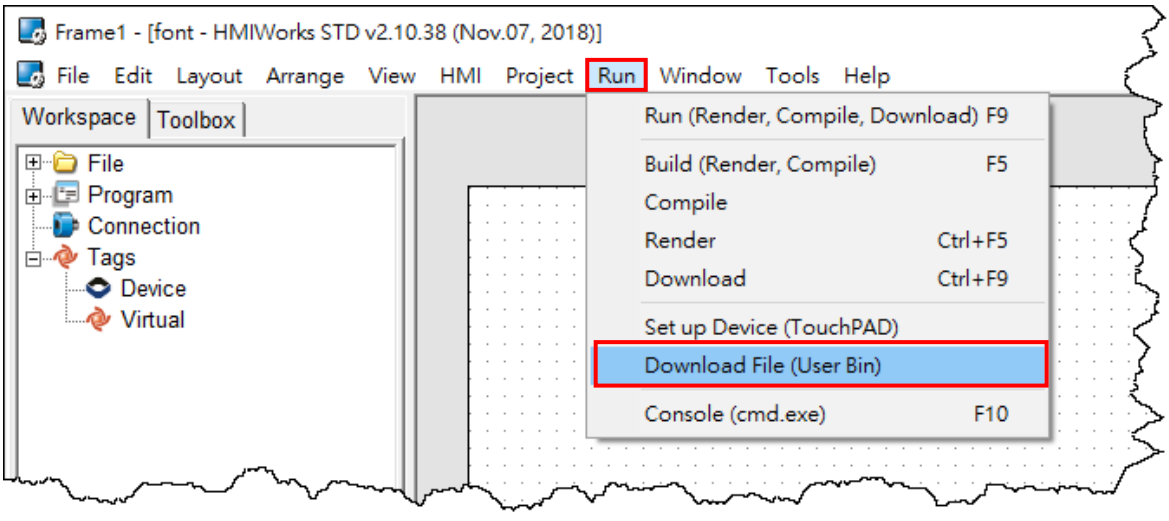
⚠ Note that the default configuration is position 0.




**6. Power-on and reboot the** TPD-433-H device for waiting update. ⚠ Note: It shows blank screen.



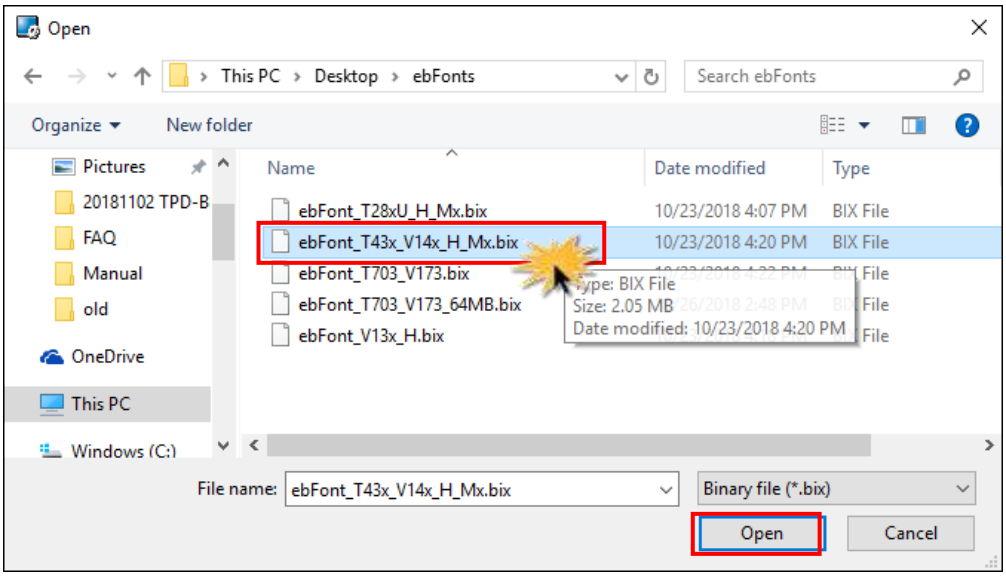
**7.** In the HMIWorks software, click the **"Download File (User Bin)"** item from the **"Run"** menu to open **"Open"** dialog box.



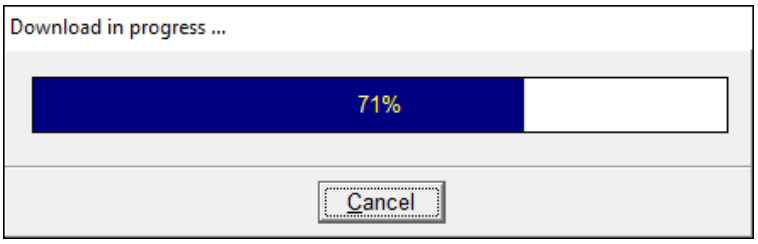

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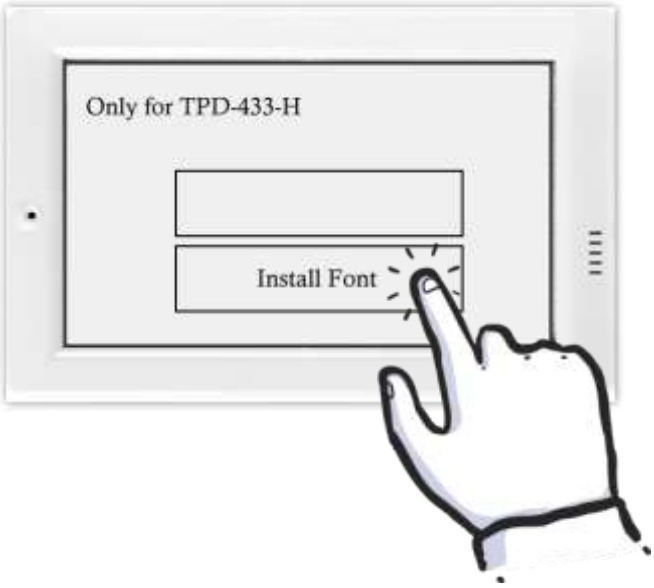
**8.** Select the **"ebFont_xxx.bix"** file depending on your TouchPAD device and click the **"Open"** button.




**9.** The **"Download in progress…"** dialog will be displayed showing the progress of the update.



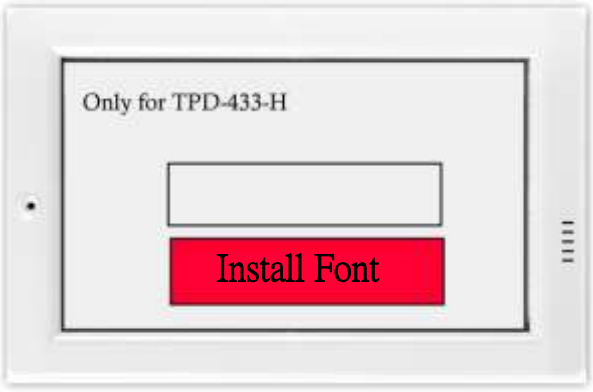

**10.** The TPD-433-H device will then display the **"Install Font"** program, and tap the **"Install Font"** icon.




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**11.** The background of the **"Install Font"** icon is displayed in **red**, which means that the installation is in progress.



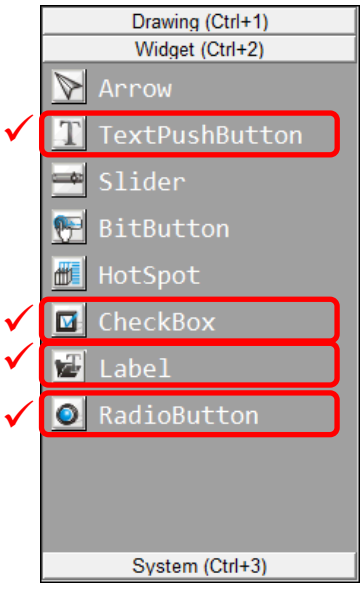

The screen hangs here for few minutes during the installation, please do not power off the TouchPAD.

**12.** The installation is completed when the screen shows **"Done"**.




**Step 4:** Use the following procedure to create a string **"Hello こんにちは Привет"** sample program:

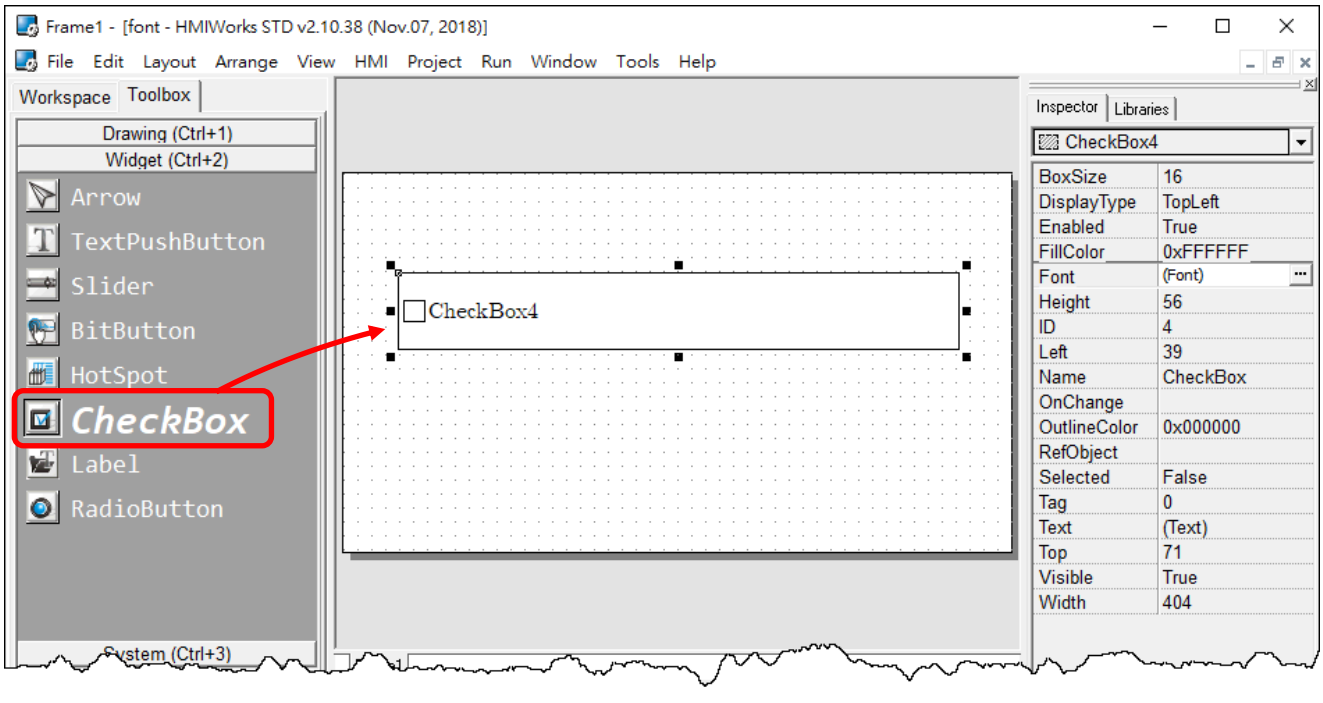
⚠ Note: The following components support ebFont feature: **"TextPushButton"**, **"CheckBox"**, **"Label"** and **"RadioButton"**. Here, the **"CheckBox"** is used as an example.




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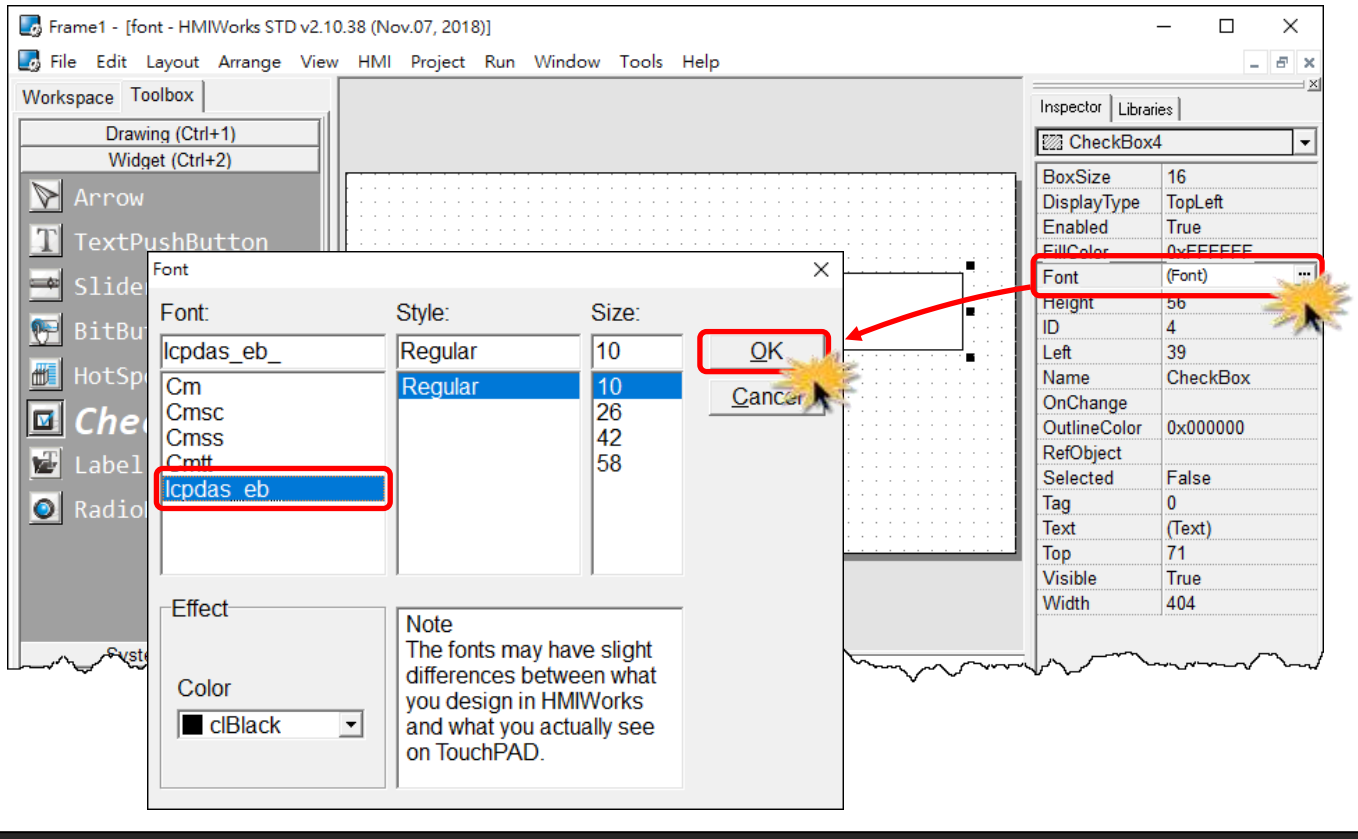
**1.** Click the **"CheckBox"** object in the **“Widget”** section of the "**Toolbox**" pane, and then click the desired position on the design frame to place the widget. Change the widget size as required.




**2.** In the **“Inspector”** pane, click the “ ” button on the **“Font”** field to select fonts.

**3.** In the **“Font”** dialog box, Click the **“Icpdas_eb_”** option and click the **“OK”** button.

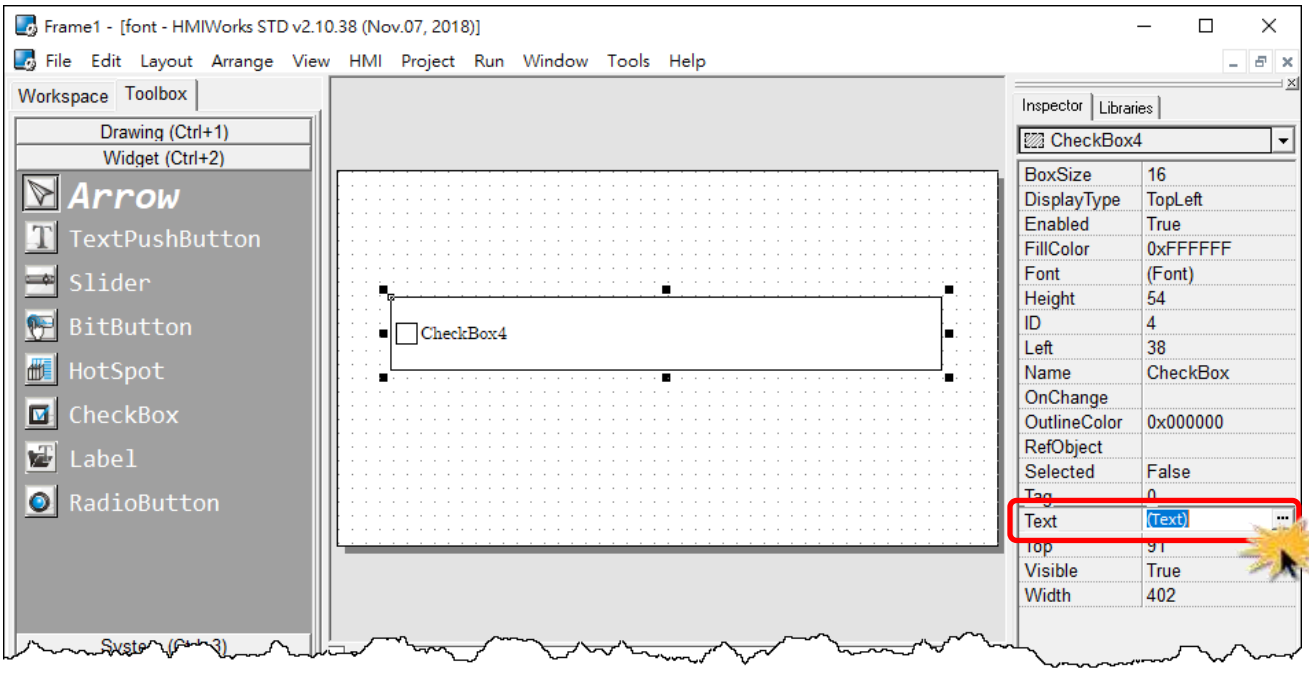
Note: The Cm/Cmsc/Cmss/Cmtt fonts do not have multilingual support.



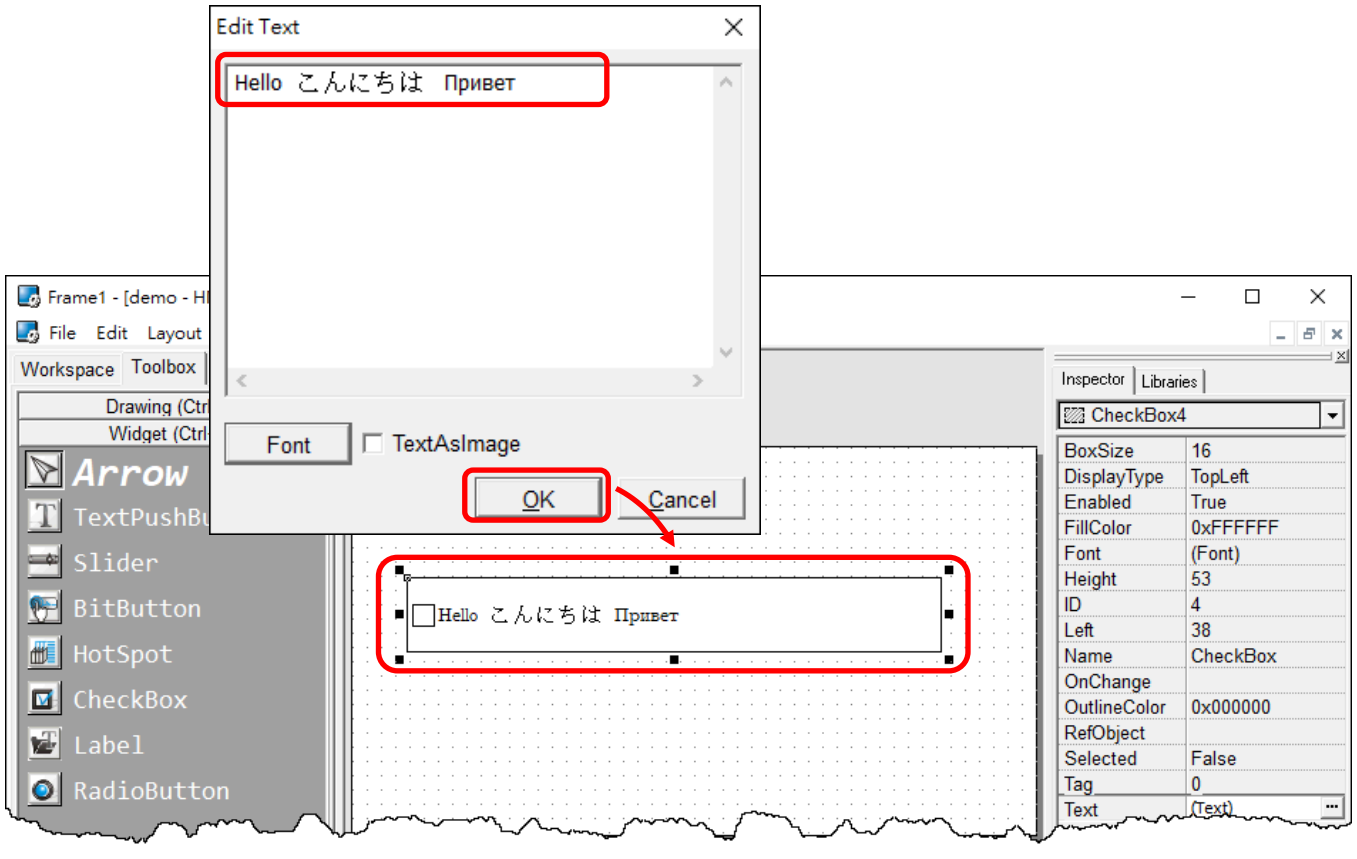

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**4.** In the **"Inspector"** pane, click the "…" button on the "**Text**" field to open the "**Edit Text**" dialog box.



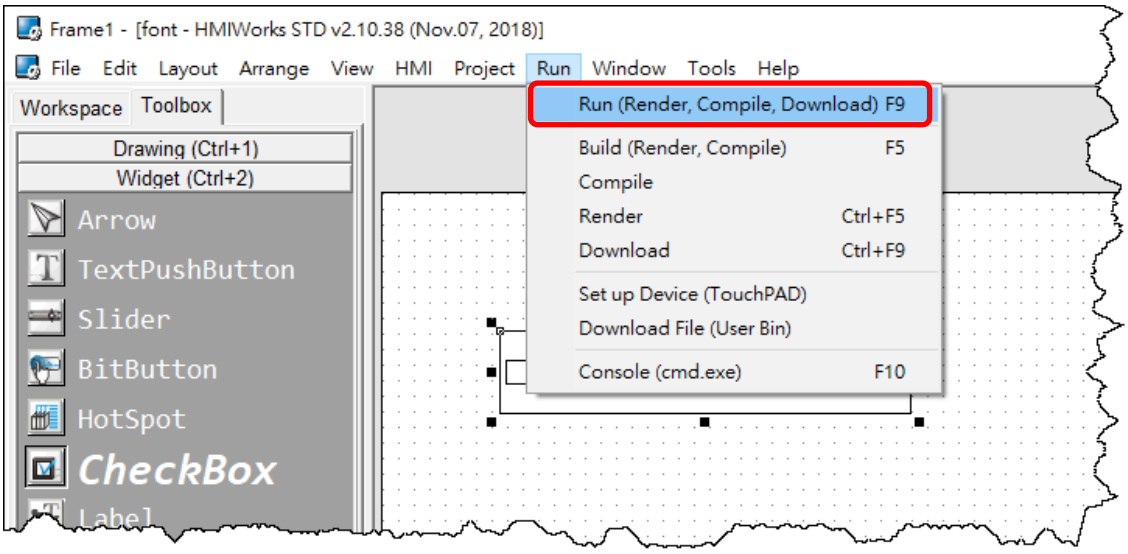

**5.** In the **"Edit Text"** dialog box, enter three strings「Hello」,「こんにちは」and「Привет」, and then click the **"OK"** button.



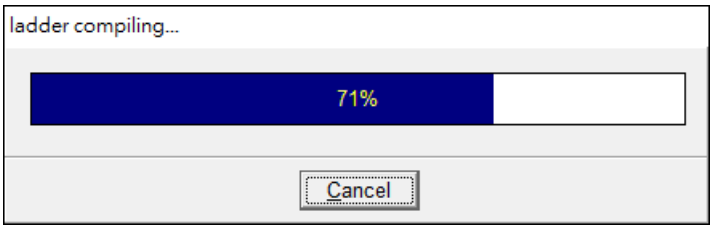

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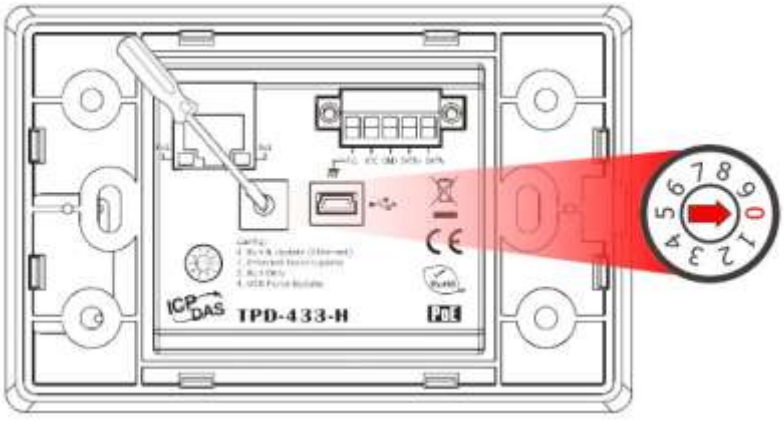
**6.** Click the **"Run (Render, Compile, Download) F9"** item from the **"Run"** menu, or press **F9**.




**7.** The **"ladder compiling…"** dialog will be displayed showing the progress of the update.



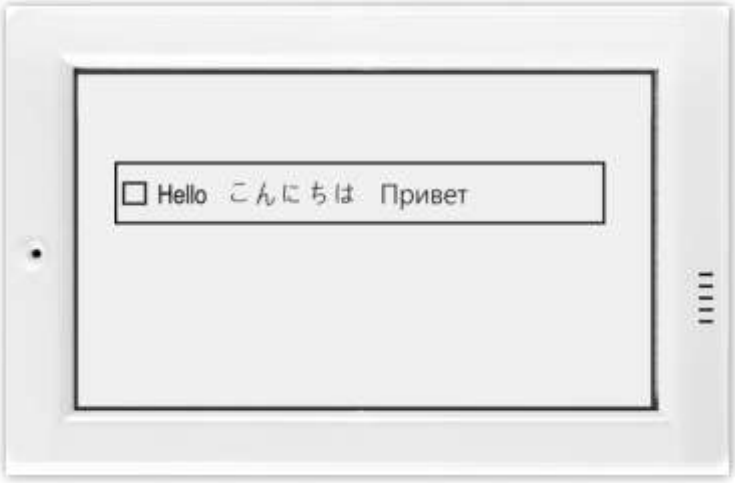

**8.** Once the upload is complete (i.e., when the progress indicator reaches 100%), **power off the** TPD-433-H device and set the **Rotary Switch to position 0 (Run mode)**.




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**9. Power-on and reboot** TPD-433-H device so that the module is operating in **“Run” mode**. The TPD-433-H device will then show the string **“Hello こんにちは Привет”**.




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