2.2.6.   USB Power

A USB cable connected to a PC or other power source provides a 5V supply to the LinkIt Smart 7688 development board. When you add peripheral devices such as an SD card, USB drive or other USB device to the development board, additional power may be consumed. Please use a high quality USB cable to reduce power loss. If your peripheral device consumes power heavily, it's better to use an external power source for it.

The approximate power consumption of various scenarios on the LinkIt Smart 7688 are described in Table 4. Please see Figure 1 for the USB power connector location.

Scenario		Approximate Power Consumption
To establish Wi-Fi connection	Peak	475.3 mA
	Average	255.6 mA
Device boot up	Peak	605.4 mA
	Average	195.1 mA
Downloading a file to an SD Card over Wi-Fi	Peak	540.4 mA
	Average	275.8 mA
Downloading a file to a USB Drive over Wi-Fi	Peak	569.5 mA
	Average	304.9 mA
Downloading a file to flash over Wi-Fi	Peak	522.4 mA
	Average	271.3 mA

Table 4 Typical power consumption scenarios

Note: The suggested power source is 5V/1A.

2.2.7.   Accessories

The standard LinkIt Smart 7688 sales package doesn't includes accessories; you may therefore require the following:

1) **USB Power Cable (Required)**: You'll need a USB type A to micro-B plug cable to power the LinkIt Smart 7688 development board from a PC or other USB power source.