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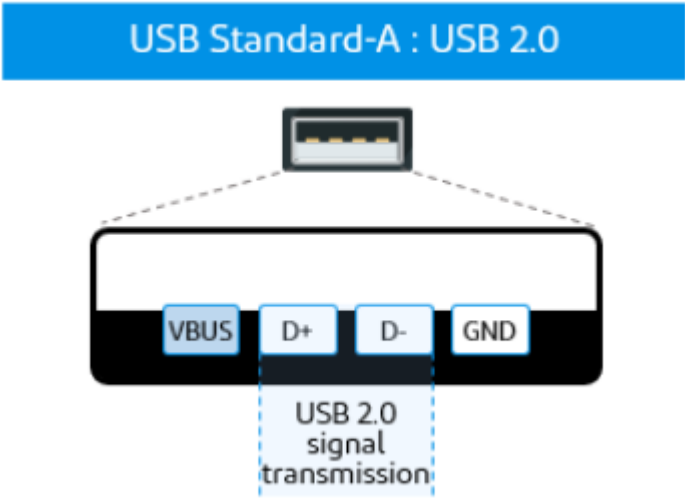
USB

Universal Serial Bus

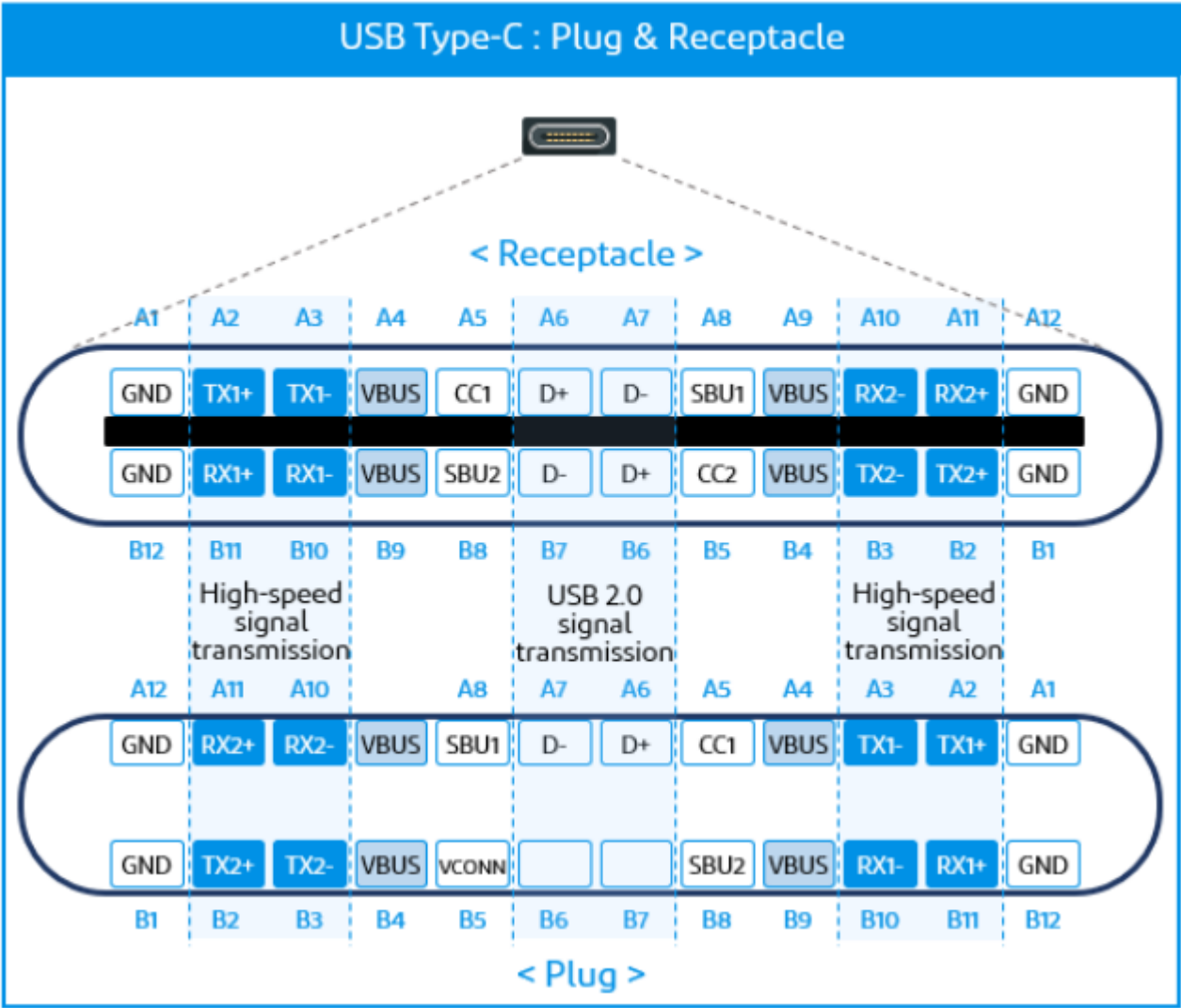
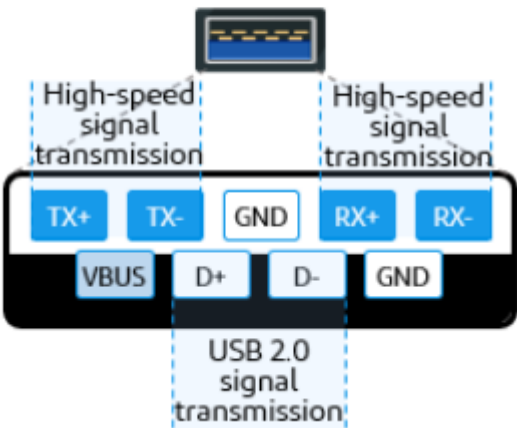
USB-IF (USB Implementers Forum, Inc.)



USB			
USB 1.1(USB 1.0)	Low speed	1.5Mbps	
	Full speed	12Mbps	
USB 2.0	High speed	480Mbps	
USB 3.2	Gen(1×1)	5Gbps	)USB 3.0 USB 3.1 gen1
	Gen(1×2)	10Gbps	)USB 3.1 USB 3.1 gen2
	Gen(2×1)	10Gbps	
	Gen(2×2)	20Gbps	



USB Standard-A : USB 3.0 / 3.1



USB 2.0	5V	0.1A(), 0.5A()	0.50W, 2.5W
USB 3.x	5V	0.15A(), 0.9A(), 1.5A(3.2)	0.75W, 4.5W
USB4™	USB PD	USB Type-C	

USB BC 1.2 ¹⁾	5V	1.5A	7.5W
Type-C Current@1.5A	5V	1.5A	7.5W
Type-C Current@3.0A	5V	3A	15W
USB PD (SPR) ²⁾	20V	5A	100W
USB PD (EPR) ³⁾	48V	5A	240W

USB Protocol

- [USB](#) Device Class
- [USB](#) Audio Class, UAC
- [USB](#) Human Interface Device, HID
- [USB](#) MIDI
- [USB](#) Mass Storage Class
- [USB](#) MTP

Host Controller

- UHCI, **U**niversal **H**ost **C**ontroller **I**nterface : [USB](#)1.0
- EHCI, **E**nhanced **H**ost **C**ontroller **I**nterface : [USB](#)2.0
- XHCI, **eX**tended **H**ost **C**ontroller **I**nterface : [USB](#)3.0
- Hand off Enable: [USB](#)
- Hand off Disable: [USB](#)

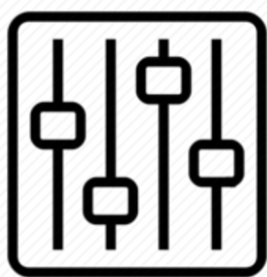
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¹⁾

Battery Charge

²⁾ , ³⁾

Power Delivery



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