

FUTURE READY SOLUTIONS®

USB REFERENCE GUIDE

COMMON USB CONNECTORS	     					
	USB TYPE A	USB TYPE C	USB MINI TYPE B	USB MICRO TYPE B	USB THUNDERBOLT	USB LIGHTNING
SUPPORTED USB STANDARDS	USB 1.0 USB 2.0 USB 3.0	USB 3.1 USB 3.2 USB 4.0 USB 4.0 V2	USB 1.0 USB 2.0	USB 1.0 USB 2.0	PROPRIETARY	USB 1.0 USB 2.0
PIN COUNT	USB 1.0: 4 USB 2.0: 4 USB 3.0: 9	24	5	5	20	8
MAXIMUM SPEED	USB 1.0: 480 MBPS USB 2.0: 480 MBPS USB 3.0: 5 GBPS	USB 3.1: 10 GBPS USB 3.2: 20 GBPS USB 4.0: 40 GBPS USB 4.0 V2: 80 GBPS	480 MBPS	480 MBPS	20 GBPS	480 MBPS
MAXIMUM POWER DELIVERY	4.5W	240W	2.5W	2.5W	9.9W	12W
MAXIMUM PASSIVE CABLE LENGTH	USB 1.0: 5M / 16.4 FT USB 2.0: 5M / 16.4 FT USB 3.0: 3M / 9.8 FT	USB 3.1: 2M / 6.5 FT USB 3.2: 1M / 3.2 FT USB 4.0: 1M / 3.2 FT USB 4.0 V2: 1M / 3.2 FT	5M / 16.4 FT	5M / 16.4 FT	3M / 9.8 FT	5M / 16.4 FT
COMMON APPLICATIONS	COMPUTERS & POWER BANKS	MODERN LAPTOPS, PHONES, TABLETS & GAMING CONSOLES	DIGITAL CAMERAS & PORTABLE DEVICES	OLDER PHONES, OLDER POWER BANKS, & GAME CONTROLLERS	OLDER APPLE COMPUTERS & DISPLAYS	OLDER APPLE PHONES, TABLETS & ACCESSORIES

*Specifications and product information subject to change



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KEY USB GENERATIONS

	TYPICAL COLOR	TYPICAL SPEED	COMPATIBILITY*	MAX PASSIVE CABLE LENGTH	MAX POWER DELIVERY	TYPICAL PORT MARKINGS
USB 1.0	BLACK	12 MBPS	USB 2.0	5M / 16.4 FT	2.5W	
USB 2.0	BLACK	480 MBPS	USB 1.0	5M / 16.4 FT	2.5W	
USB 3.0	BLUE	5 GBPS	USB 1.0 USB 2.0	3M / 9.8 FT	4.5W	
USB 3.1	TEAL = STANDARD	10 GBPS	USB 1.0 USB 2.0 USB 3.0	2M / 6.5 FT	240W	
	RED = FAST CHARGE					
USB 4.0	NA	40 GBPS	USB 2.0 USB 3.0 USB 3.1	1M / 3.2 FT	100W	
USB 4.0 V2	NA	80 GBPS	USB 2.0 USB 3.0 USB 3.1 USB 4.0	1M / 3.2 FT	100W	

*Functionality may be limited when connecting different versions; performance is typically limited to the slowest device

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