

USB Equipment Selection Guide

SmartCard Reader
Wireless MODEM
Storage Portable
Audio CODEC
LAN Card
HOST Card
SD Card
Test Fixture
PLX Evaluation
Customize USB Cable

FY 2014

USB Equipment for Notebook PC

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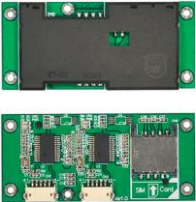
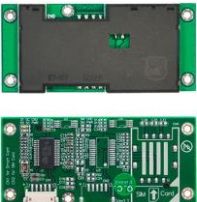
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USB SMARTCARD MODULE

USB Smartcard module

Smartcard Reader module

Model	USB9540 V1.0	USB9540 V1.2	USB9540D V1.1	USB9540D-NS V1.1
Sample Photo				
Card type	Smartcard	Smartcard	SmartCard/SIM card	SmartCard
Interface	USB 2.0	USB 2.0	USB2.0 x2	USB2.0
Dimension	85x29x9mm 12.5g	56x38x9mm 10.35g	69x32x9mm 12.45g	69x32x9mm 11.35g
Operating temp.	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C

Model List	Where to buy?	Descriptions
USB9540 V1.0	Contact Sales	Discontinued
USB9540-D9 V1.2	Contact Sales	Smartcard module with 90 degree USB connector OEM version
USB9540-D0 V1.2	Contact Sales	Smartcard module OEM version
USB9540D V1.1	Web-shop	Dual Smartcard module
USB9540D-NS V1.1	Web-shop	Smartcard module
Uxxxxx-OEM	Contact Sales	OEM project

USB WIRELESS MODEM

USB Wireless MODEM

USB Wireless MODEM module adapter comparison table

Model	USBMA V1.2	USBMI V1.3	USBMV V1.3	USBMS V1.4	USBM2 V2.0
Module Photo					
PCBA size	63.5 x 41.0 mm	63.5 x 41.0 mm	63.5 x 54.9 mm	63.6 x 75.6 mm	63.6 x 75.6 mm
External power input	No	Yes	Yes	Yes	Yes
Indicate LED	ACC	ACC	ACC	ACC / PWR	ACC / PWR
MIC/EAR connector	No	No	Option	Option	No
3.3V output current	1500mA	2700mA	2700mA	2700mA	2700mA
Super cap. for peak current	NA	NA	NA	0.022F	0.022F
SIM card connector	Yes	Yes	Yes (Push)	Yes (Push)	Yes (Push)
MiniCard dimension support	MiniCard Full/Half	MiniCard Full/Half	MiniCard Full/Half	MiniCard Full/Half	M.2 (NGFF) 3042 Key B
Operating temperature ranges	-40°C ~ +85°C	-25°C ~ +70°C OEM for -40°C ~ +85°C	-25°C ~ +70°C OEM for -40°C ~ +85°C	-25°C ~ +70°C OEM for -40°C ~ +85°C	-25°C ~ +70°C OEM for -40°C ~ +85°C

USB Wireless MODEM comparison table

Model	USBMA-MC7710	USBMI-3400	USBMS-MC7710	USBM2-ME906E	
Products Photo					
Air Interface	4G / LTE / GPS	3G / CDMA	4G / LTE / GPS	4G / LTE	
Interface	USB2.0/mPCIe	USB2.0/mPCIe	USB2.0/mPCIe	USB2.0/M.2	
Enclosure	Aluminum	Waterproof	Aluminum	Aluminum	

All of Model	Where to buy?	Special Information
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USB WIRELESS MODEM

USBMA PCBA V1.2	Contact Sales	Support CDMA/LTE module for your OEM project.
USBMA module V1.2	Web-shop	Support CDMA/LTE module for your embedded system
USBMA-SMA V1.2	Web-shop	MiniCard to USB adapter with SMA connector for CDMA/LTE antenna
USBMA-RPSMA V1.2	Web-shop	USB type MiniCard to USB adapter with RP-SMA connector
USBMA-WP-SMA V1.2	Web-shop	CDMA/LTE MiniCard to USB adapter with Waterproof Case
USBMA-WP-RPSMA V1.2	Contact Sales	USB type Wi-Fi MiniCard to USB adapter with Waterproof Case
USBMA-6250xx	Contact Sales	4G/WiMAX USB MODEM, Intel 622ANXHMW module inside.
USBMA-MC7710	Contact Sales	CDMA/LTE MiniCard to USB adapter
USBMI PCBA V1.3	Contact Sales	Support CDMA/LTE module for your OEM project.
USBMI module V1.3	Web-shop	Support CDMA/LTE module for your embedded system
USBMI-SMA V1.3	Contact Sales	USB type MiniCard to USB adapter with SMA connfor CDMA/LTE antenna
USBMI-RPSMA V1.3	Contact Sales	USB type MiniCard to USB adapter with RP-SMA connector for WiFi antenna
USBMI-WP-SMA V1.3	Web-shop	CDMA/LTE MiniCard to USB adapter with Waterproof Case, add SMA Cable
USBMI-WP-RPSMA V1.3	Contact Sales	USB type Wi-Fi MiniCard adapter with Waterproof Case, add RPSMA Cable
USBMI-WP-MC7710	Web-shop	Waterproof 4G/LTE USB MODEM, Sierra Wireless MC7710 module inside.
USBMI-WP-3400	Contact Sales	Waterproof 3G/CDMA USB MODEM, Samsung GT-Y3400 module inside.
USBMI-U6300V module	Contact Sales	LongSung U6300V 3G/CDMA module inside, support PCM Voice
USBMV PCBA V1.3	Contact Sales	Add CDMA/LTE module for your OEM project.
USBMV module V1.3	Contact Sales	Add CDMA/LTE module for your embedded system testing
USBMV-SMA V1.3	Contact Sales	USB type MiniCard to USB adapter for CDMA/LTE antenna
USBMV-RPSMA V1.3	Contact Sales	USB type MiniCard to USB adapter with RP-SMA connector for Wi-Fi antenna
USBMV-D PCBA V1.3	Contact Sales	Add CDMA/LTE module for your embedded system
USBMV-D module V1.3	Contact Sales	Support analog voice function. Support 3G/4G MiniCard for testing
USBMV-D-SMA V1.3	Contact Sales	USB type MiniCard to USB adapter with SMA conn for CDMA/LTE antenna
USBMV-D-RPSMA V1.3	Contact Sales	USB type MiniCard adapter with RP-SMA connector for CDMA/LTE antenna
USBMV-MC8775V	Contact Sales	Sierra Wireless MC8775V module inside. Support analog voice
USBMS series V1.2	Contact Sales	Discontinued, Please choose USBMS-E V1.2 instant.
USBMS-D series V1.2	Contact Sales	Discontinued, Please choose USBMS-E V1.2 instant
USBMS-E module V1.2	Web-shop	MiniCard to USB adapter. Indicate LED,
USBMS-E-SMA V1.2	Web-shop	MiniCard to USB adapter. Indicate LED, SMA connector for 3G antenna
USBMS-N15 series V1.2	Contact Sales	Discontinued, Please choose USBMS-F module V1.4
USBMS-MC7710	Contact Sales	4G/LTE USB MODEM, Sierra Wireless MC7710 module inside.
USBMS-OEM V1.2	Contact Sales	Custom PCBA, Enclosure, RF-Coaxial Cable, USB cable, Screw, Antenna
USBMS-E-SMA V1.4	Contact Sales	MiniCard to USB adapter. Indicate LED, SMA connector for 3G/4G antenna
USBMS-F module V1.4	Web-shop	3G/4G module to USB adapter for engineering testing. Add super Capacitor.
USBM2-F module V2.0	Web-shop	3G/4G module to USB adapter for engineering testing. Add super Capacitor.
USBM2-E module V2.0	Contact Sales	3G/4G module to USB adapter for OEM project.
USBM2-E-SMA V2.0	Web-shop	M.2 (NGFF) to USB adapter. Indicate LED, MHF4/SMA cable for 3G antenna.
USBM2-ME906E	Contact Sales	4G/LTE USB MODEM, Huawei ME906E module inside.
USBM2-OEM	Contact Sales	Custom PCBA, Enclosure, RF-Coaxial Cable, USB cable, Screw, Antenna.

USB STORAGE DEVICE

USB Storage Device

mSATA / M.2 SSD portable external USB 3.0 adapter

Model	SSDMB V1.5	U3M2B V1.0	U3M2M V1.0	
Sample Photo				
Memory Card type	mSATA	M.2 Key B	M.2 Key M	
Interface	SATAIII 6G/s USB3.0	SATAIII 6G/s USB3.0	PCI-E 5G/s USB3.0	
Dimension	41x68x11mm	98x38x10mm	98x38x10mm	
Operating temp.	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C	

mSATA portable external USB 3.0 adapter with SSD module

Popular Model	Product	Disassembly & Accessory	Option
SSDMB-S120G SSDMB-S250G SSDMB-S500G SSDMB-S1TB			Samsung 840evo  120GB 250GB 500GB 1TB

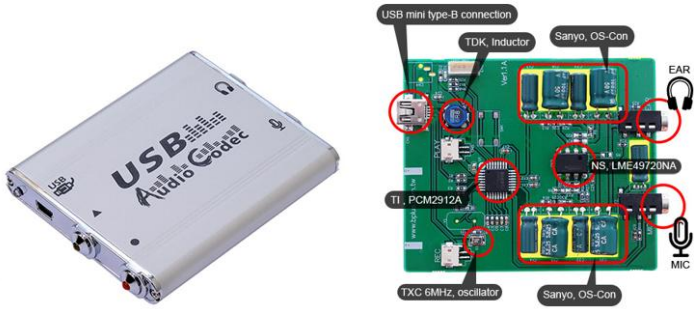
M.2 (NGFF) portable external USB adapter with SSD module

Popular Model	Product	Disassembly & Accessory	Option
U3M2B			Intel SSD 530  180GB
U3M2M			Samsung XP941  128GB 256GB 512GB

Model List	Where to buy?	Descriptions
SSDMB V1.5	Web-shop	mSATA to USB3.0 Adapter
SSDMB-S120G	Web-shop	120G mSATA portable external USB3.0 enclosure
SSDMB-S250G	Web-shop	250G mSATA portable external USB3.0 enclosure
SSDMB-S500G	Web-shop	500G mSATA portable external USB3.0 enclosure
SSDMB-S1TB	Web-shop	1TB mSATA portable external USB3.0 enclosure
U3M2B	Web-shop	M.2 module Key B SATA SSD to USB3.0 enclosure
U3M2M	Web-shop	M.2 module Key M PCIe SSD to USB3.0 enclosure
U3xxxx-OEM	Contact Sales	OEM project

USB AUDIO CODEC

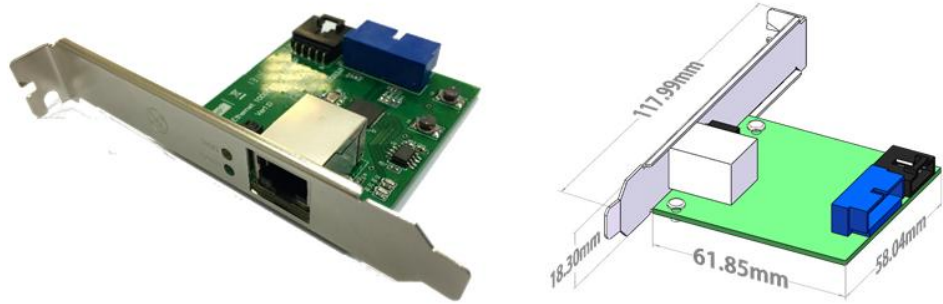
USB Audio CODEC

Model	USB2912A
Sample Photo	
Feature	Dolby Digital decoding, 5.1 channel surround sound
Interface	USB 2.0
Dimension	67.85 x 75.75 x 10.4 mm
Support OS	Windows XP, Windows Vista, Windows 7, Windows 8, Linux, Mac
Operating temp.	-0°C ~ +70°C

All of Model	Where to buy?	Special Information
USB2912A	Web-shop	USB Audio Codec

USB LAN CARD

USB LAN Card

Model	USB88179
Sample Photo	
Feature	10/100/1000M Gigabit Ethernet, Wake-on- LAN function ,Supports IEEE 802.3az, 802.3, 802.3u and 802.3ab
Interface	USB 3.0
Dimension	61.85 x 58.04 x 16.75 mm (PCBA)
Support OS	Windows CE 5.0, Windows CE 6.0, Windows XP, Windows Vista, Windows 7, Windows 8/8.1 , Linux, Mac
Operating temp.	-0°C ~ +70°C

All of Model	Where to buy?	Special Information
USB88179	Web-shop	1000M USB interface NIC Card

USB HOST

USB HOST

Model	PP1U	PP2U	EC3U	EC4U	
Module Photo					
Function	PCIe to USB 3.0	PCIe to Duo USB 3.0	ExpressCard to USB 3.0	ExpressCard to USB 3.0	
Controller	Renesas uPD720202	Renesas uPD720202	Fresco FL1000G	Renesas uPd720200A	
External power input	Yes	Yes	Yes	Yes	
Indicate LED	NA	NA	NA	NA	
Dimension	67.75 x 65.0 mm	67.75 x 65.0 mm	75 x 34 mm	75 x 34 mm	
Operating temperature ranges	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C	

All of Model	Where to buy?	Special Information
PP1U	Web-shop	PCIe x1 to USB 3.0
PP2U	Web-shop	PCIe x1 to Duo USB 3.0.
EC3U	Contact Sales	Express Card to USB 3.0
EC4U	Web-shop	Express Card to USB 3.0

SD CARD

SD CARD

Model	MR04	MR15	UC1S
Module Photo			
Function	SD card reader	Duo micro SD card reader	USB 3.0/OTG/TF reader 3in1 Cable
Interface	mPCIe (USB 2.0)	mPCIe (USB 2.0)	USB3.0
SD SPEC	SD 2.0	SD 3.0	SD 3.0
Indicate LED	NA	ACC / PWR	ACC / PWR
Dimension	30 x 50 mm	30 x 30 mm	For ODM
Operating temperature ranges	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C

All of Model	Where to buy?	Special Information
MR04	Web-shop	SD card reader, SDXC
MR15	Web-shop	Duo Micro SD card reader, SDXC, UHS-1
UC1S	Contact Sales	USB3.0/OTG-microSDXC UHS-I Reader & USB-microUSB Link/Charge 3in1 Cable

TEST FIXTURE

Test Fixture

Model	U2EX	U3EX	PM3U	P34SF-USB
Module Photo				
Function	USB 2.0 Test Fixture	USB 3.0 Test Fixture	mPCIe to USB 2.0	mPCIe to USB 2.0 Extender
Interface	USB 2.0	USB 2.0/USB 3.0	USB 2.0	USB 2.0
Power switch	5V to 3.3V	5V to 3.3V	3.3V to 5V	3.3V to 5V
Indicate LED	No	5V/3V	No	No
Dimension	79.7 x 18.3 mm	55 x 20 mm	50 x 30 mm	50 x 30 mm 23.3 x 6.81 mm
Operating temperature ranges	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C

All of Model	Where to buy?	Special Information
U2EX	Web-shop	USB 2.0 test fixture
U3EX	Web-shop	USB 3.0 test fixture
PM3U	Web-shop	mPCIe to USB 2.0
P34SF-USB	Web-shop	mPCIe to USB 2.0 Extender with 10/20 cm FFC cable

PLX EVALUATION

PLX Evaluation

Model	USB2380EVB	USB3380EVB	EC2380-AB	EC3380-AB
Module Photo				
PLX controller	USB 2380	USB 3380	USB 2380	USB 3380
Function	mPCIe to USB	mPCIe to USB	ExpressCard to USB	ExpressCard to USB
SPEC	PCIe Gen 1 USB 2.0	PCIe Gen 2 USB 3.0	PCIe Gen 1 USB 2.0	PCIe Gen 2 USB 3.0
Dimension	50 x 30 mm	50 x 30 mm	75 x 34 mm	75 x 34 mm
Operating temperature ranges	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C

Model	PP2380-AB	PP3380-AB	PP3U	DB8605
Module Photo				
PLX controller	USB 2380	USB 3380	PLX PEX8112	PEX 8605
Function	PCIe to USB	PCIe to USB	PCI to USB	PCIe to 3 port PCIe
SPEC	PCIe Gen 1 USB 2.0	PCIe Gen 2 USB 3.0	PCI 3.0(33/66MHz) USB 3.0	PCIe Gen 2
PCB Size	53.65 x 67.8 mm	53.65 x 67.8 mm	63 x 122 mm	
Operating temperature ranges	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C	-0°C ~ +70°C

PLX EVALUATION

All of Model	Where to buy?	Special Information
USB2380-EVB	Web-shop	mPCIe to USB 2.0 for Evaluation test
USB2380-AA EVK	Web-shop	PCIe to USB 2.0 for Evaluation test
USB2380EVB-PE3B	Web-shop	ExpressCard to USB 2.0 for Evaluation test
USB3380-EVB	Web-shop	mPCIe to USB 3.0 for Evaluation test
USB3380-AB EVK	Web-shop	PCIe to USB 3.0 for Evaluation test
USB3380EVB-PE3B	Web-shop	ExpressCard to USB 3.0 for Evaluation test
USB3380-AB EVK-RC	Web-shop	PCIe to USB 3.0 with embedded system for Evaluation test
EC2380-AB	Web-shop	ExpressCard to USB 2.0 for Evaluation test
EC3380-AB	Web-shop	ExpressCard to USB 3.0 for Evaluation test
PP2380-AB EVK	Web-shop	PCIe to USB 2.0 for Evaluation test
PP2380-AB-PE3A	Web-shop	ExpressCard to USB 2.0 for Evaluation test
PP3380-AB	Web-shop	PCIe to USB 3.0 for Evaluation test
PP3380-AB-PE3A	Web-shop	ExpressCard to USB 3.0 for Evaluation test
PP3U	Web-shop	PCI to USB 3.0 adapter
P21S-DB8605	Web-shop	PCI-E Express Gen2 3Lanes, 3port Adapter

CUSTOMIZE USB CABLE

Customize USB Cable

USB 2.0 Cable

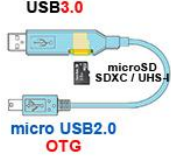
Model	U2AMTB60	U2AMTBL67	USB-Y-Line-2.0	Y02-USB-068	Y02-USB-069
Module Photo					
Connector (L)	USB2.0 A Male	USB2.0 A Male	USB2.0 A (Duo)	USB2.0 A Male	USB 2.0 mini B
Connector (R)	USB 2.0 mini B	USB 2.0 mini B (90 deg.)	USB 2.0 mini B	Dupont 1PIN*5	Dupont 5PIN
Length(cm)	60	60	60	60	45.5
Material	Standard Cable	Standard Cable	Y Cable	Standard Cable	Standard Cable
Operating temperature ranges	-20°C ~ +80°C	-20°C ~ +80°C	-20°C ~ +80°C	-20°C ~ +80°C	-20°C ~ +80°C

USB 2.0 Cable

Model	Y02-USB-099	Y02-WH-015	P25AMTDC60		
Module Photo					
Connector (L)	Dupont 5PIN	Dupont 5PIN	USB2.0 A Male		
Connector (R)	USB 2.0 mini 5PIN	Dupont 5PIN	5V DC power		
Length(cm)	59	60	60		
Material	Standard Cable	Standard Cable	Standard Cable		
Operating temperature ranges	-20°C ~ +80°C	-20°C ~ +80°C	-20°C ~ +80°C		

CUSTOMIZE USB CABLE

USB 3.0 Cable

Model	UC1S	Y02-U3-150	Y02-U3-003	U3AMAM60	U3AMAF100
Module Photo					
Connector (L)	USB 3.0 A Male (SD)	USB3.0 A Male	USB3.0 A Male	USB3.0 A Male	USB3.0 A Male
Connector (R)	Micro USB 2.0	USB 3.0 Micro B Male	USB 3.0 Micro B Male	USB3.0 A Male	USB 3.0 A Female
Length(cm)	For ODM	143	50.5	60	100
Material	Standard Cable	Standard Cable	Standard Cable	Standard Cable	Standard Cable
Operating temperature ranges	0°C ~ +70°C	-20°C ~ +80°C	-20°C ~ +80°C	-20°C ~ +80°C	-20°C ~ +80°C

USB 3.0 Cable

Model	Y19-U3F-050	Y19-U3R-025	Y19-U3-001	Y19-U3-050	Y19-U3-020
Module Photo					
Connector (L)	USB3.0 19PIN Male	USB3.0 19PIN Female	USB3.0 19PIN Male	USB3.0 19PIN Male	USB3.0 19PIN Male
Connector (R)	USB 3.0 A Female (Duo*3.5inch front bay)	USB 3.0 A Male (Duo)	USB 3.0 A Female (Duo)	USB 3.0 A Female (Duo*Bracket)	USB 3.0 A Female (Duo)
Length(cm)	54	18	NA	44.5	18
Material	Standard Cable	Standard Cable	Standard Cable	Standard Cable	Standard Cable
Operating temperature ranges	0°C ~ +70°C	-20°C ~ +80°C	-20°C ~ +80°C	-20°C ~ +80°C	-20°C ~ +80°C

COMPANY INFO

Company info

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