

USBx functions comparison	USBMA	USBMI	USBMI-D	USBMV	USBMV-D	USBMS	USBMS-D	USBMS-E	USBMS-N15
USB2.0 interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PCIe interface	No	No	No	No	No	No	No	No	No
AC/DC 3.3V external power input	No	No	Yes	No	Yes	No	Yes	Yes	Yes
External access LED	Yes	Yes	No	Yes	No	Yes	No	Yes x2	No
3.3V output current (typ.)	1500mA	2700mA	2700mA	2700mA	2700mA	2700mA	2700mA	2700mA	2700mA
1.5V output current (typ.)	800mA	1000mA	1000mA	1000mA	1000mA	1000mA	1000mA	1000mA	No
By pass cap. for 3G card peak current	0.047F	0.047F	0.047F	0.15F	0.15F	0.22F	0.22F	0.22F	0.22F
SIM card connector	Yes	Yes	Yes	Yes	Yes	Yes (Push)	Yes(Push)	Yes (Push)	Yes(Push)
MIC/EAR connector	No	No	No	Yes	Yes	Yes	Yes	No	Yes
MiniCard dimension support	Full/Half	Full/Half	Full/Half	Full/Half	Full/Half	Full/Half	Full/Half	Full/Half	Full/Half

**Caution:**

1. USBMS-E design for Ericsson module support wake function.
2. USBMS-N15 design for SierraWireless, LONGCHEER module using