

Software Name: **UC-8100 Series Firmware**

Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/Enhancements	Bugs Fixed/Changes	Note
1.1	Build 14072210	Linux	UC-8100	<b>New Features:</b> N/A  <b>Enhancements:</b> 1. Upgrade package (openssl)	<b>Bugs Fixed:</b> 1. Fix network driver  <b>Changes:</b> 1. Remove getty process 2. Disable GPS function of MC8090, MC9090	Office release
1.2	Build 14080718	Linux	UC-8100	<b>New Features:</b> N/A  <b>Enhancements:</b> N/A	<b>Bugs Fixed:</b> 1. Fix corrupted backup zip file.  <b>Changes:</b> N/A	Office release
1.3	Build 14112810	Linux	UC-8100	<b>New Features:</b> 1. Install crda version 1.1.2-1 2. Install firmware-ralink version 0.43~bpo70 3. Install rkill version 0.4-1 4. Enable conntack kernel option 5. Enable LXC kernel option  <b>Enhancements:</b> 1. Upgrade to Debian 7.7 2. Enhance wifi connection utility 3. Add signal function of cellular 4. Add status function of cellular 5. Enable Spread Spectrum for CORE/PER/DDR 6. Add Eth PHY analog off and power down function. 7. Allow hardware assisted rts/cts modes to be disabled 8. Enhance stability of SD driver.	<b>Bugs Fixed:</b> 1. Fix issue of system files 2. Fix security issue of openssl 3. Fix security issue of bash 4. Fix issue of Sierra Wireless MC9090  <b>Changes:</b> 1. Update version of bootloader to V1.1 2. Rename utility of wifi from wifi.sh to wifi_mgmt 3. Use QMI to dial up with Sierra Wireless MC73x4 instead of using ppp 4. Modify SDRAM configuration to fit size and timing 5. Modify GPIO_0_19 pin setting for EMI 6. Modify MLO file check method in SD boot process. 7. Use WiFi open source driver instead of ralink official driver 8. Disable USB PIO mode, enable USB DMA mode.	Office release

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1.3.2	Build 14110610	Linux	UC-8100	<b>New Features:</b> N/A  <b>Enhancements:</b> N/A	<b>Bugs Fixed:</b> N/A  <b>Changes:</b> 1. Adjust K4B4G1646D DDR3 SDRAM setting - 512MB 2. Bootloader version: 1.1.2 C00	CV (PM1)
1.3.4	Build 14110609	Linux	UC-8100	<b>New Features:</b> N/A  <b>Enhancements:</b> N/A	<b>Bugs Fixed:</b> N/A  <b>Changes:</b> 1. Remove 1GHz TPM MP-test and TPM DEL item. 2. Remove tpm related packages 3. Bootloader version: 1.1.4 C00	CV (BKW Energie AG)

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1.4	Build 15032016	Linux	UC-8100	<ol style="list-style-type: none"> <li>Add GRE related drivers.</li> <li>Add sierra 3G/4G driver in order to use IPv6</li> <li>Add mangle driver</li> <li>Add overlayfs driver</li> </ol> <p><b>Enhancements:</b></p> <ol style="list-style-type: none"> <li>Enhance cellular connection utility                             <ul style="list-style-type: none"> <li>Dial up/connect to cellular network</li> <li>Soft-reset(restart) module</li> <li>Hard-reset module</li> <li>Check carrier</li> <li>Choose carrier</li> <li>Reset module to factory default</li> <li>Send AT command</li> <li>Set PIN code</li> <li>SIM card status</li> <li>Enable/ Disable PIN of SIM card</li> </ul> </li> <li>Support UART baudrate 921600</li> <li>Patch Linux 3.2.66 wifi related files.</li> <li>Enhance watchdog function                             <ul style="list-style-type: none"> <li>Disable "NOWAYOUT" in default</li> <li>Enable "MAGIC CLOSE" in default</li> <li>Provide configurable option on module parameter of "NOWAYOUT" and "TIMER_MARGIN"</li> </ul> </li> <li>Enhance SD card compatibility in bootloader</li> </ol>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>Fix security issue of openssl</li> <li>Fix security issue of ntpdate</li> <li>Fix security issue of bash</li> <li>Fix security issue of glibc</li> <li>Fix RS-232 data loss issue</li> <li>Fix network driver issue</li> <li>Fix SerialNumber length to 12 byte in bootloader</li> </ol> <p><b>Changes:</b></p> <ol style="list-style-type: none"> <li>Black Gobi-related driver in default.</li> <li>All LED turn off except power LED after halting</li> <li>Add /etc/modprobe.d/watchdog.conf</li> <li>Initialize GPIO PIN of UART earlier to avoid "setinterface" failed in rc.local</li> <li>Bootloader version: 1.2.0S02</li> <li>Blink the LED after stopping 8100 services</li> <li>Switch the SD/USB LED control behavior into user space, so that we need to add number of LED in diagnostic function.</li> <li>Change the led behavior when LED device is failed.</li> <li>Upgrade Debian version to 7.8</li> <li>Work around solution for USB hubble</li> </ol>	Office release

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1.5	Build 15090108	linux	UC-8100	<p><b>New Features:</b></p> <ol style="list-style-type: none"> <li>Add bluetooth related kernel drivers</li> </ol> <p><b>Enhancements:</b></p> <ol style="list-style-type: none"> <li>Upgrade package <ul style="list-style-type: none"> <li>Update openssl to version 1.0.1e-2+deb7u17</li> <li>Update libqmi to version 1.12.6</li> <li>Update cellular-utils to version 1.5.0</li> <li>Update libssl to version 1.0.1e-2+deb7u17</li> <li>Update apache2 to version 2.2.22-13+deb7u6</li> <li>Update apache2-mpm-prefork to version 2.2.22-13+deb7u6</li> <li>Update apache2-utils to version 2.2.22-13+deb7u6</li> <li>Update apache2.2-bin to version 2.2.22-13+deb7u6</li> <li>Update apache2.2-common to version 2.2.22-13+deb7u6</li> <li>Update dpkg to version 1.16.16</li> <li>Update file to version 5.11-2+deb7u8</li> <li>Update mysql-common to version 5.5.44-0+deb7u1</li> <li>Update libexpat1:armhf to version 2.1.0-1+deb7u2</li> <li>Update libldap-2.4-2:armhf to version 2.4.31-2</li> <li>Update libmagic1:armhf to version 5.11-2+deb7u8</li> <li>Update libmysqlclient18:armhf to version 5.5.44-0+deb7u1</li> </ul> </li> </ol>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>Fix USB driver <ul style="list-style-type: none"> <li>fix IRQ race during initialization</li> <li>fix tty-device error handling at probe</li> <li>fix potential use after free</li> <li>fix race in generic write</li> </ul> </li> <li>Fix RS232-UART driver <ul style="list-style-type: none"> <li>fix UART data failed issue when disabling hardware flow control.</li> </ul> </li> </ol> <p><b>Changes:</b></p> <ol style="list-style-type: none"> <li>Bootloader version: 1.3.0S03</li> <li>Enable GobiSerial module <ul style="list-style-type: none"> <li>It makes GPS function more stable.</li> <li>Automatically enable or disable GPS, when the module device node is opened or closed.</li> </ul> </li> <li>Remove TPM tool related-packages <ul style="list-style-type: none"> <li>libtpm-unseal1</li> <li>tpm-tools</li> <li>trousers</li> <li>libopencryptoki0</li> <li>opencryptoki</li> </ul> </li> </ol>	Office release

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1.6	Build 15110421	linux	UC-8100	<p><b>New Features:</b></p> <ol style="list-style-type: none"> <li>Add Yuga cellular module (Enable China LTE)</li> <li>Add ftp-related driver (Enable ftp function)</li> <li>add a check sierra modules mtu size function.</li> </ol> <p><b>Enhancements:</b></p> <ol style="list-style-type: none"> <li>Upgrade package <ul style="list-style-type: none"> <li>Update uc8100-cellular-utils to version 1.6.0</li> <li>Update uc8100-diag to version 1.2.0</li> <li>Update uc8100-system to version 1.6.0</li> </ul> </li> </ol>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>Fix chs_signal led bugs</li> <li>Fix PPPoE Connection Error of MC73xx</li> </ol> <p><b>Changes:</b></p> <ol style="list-style-type: none"> <li>Remove TPM tool related-functions in following files <ul style="list-style-type: none"> <li>mx_diag</li> </ul> </li> <li>modified default domain name</li> <li>disable supports_autosuspend function for qmi_wwan driver</li> <li>Clear bash shell history command.</li> </ol>	Office release
1.7	Build 17011120	linux	UC-8100	<p><b>New Features:</b> N/A</p> <p><b>Enhancements:</b> N/A</p>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>Fixed MC7354 "switch_carrier" Issue.</li> </ol> <p><b>Changes:</b> N/A</p>	Office release
1.5.6	Build	linux	UC-8100	<p><b>New Features:</b> N/A</p> <p><b>Enhancements:</b> N/A</p>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>Fixed MC7354 "switch_carrier" Issue.</li> </ol> <p><b>Changes:</b> N/A</p>	CV (SV)

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2	Build 17062219	linux	UC-8100	<p><b>New Features:</b> N/A</p> <p><b>Enhancements:</b> N/A</p>	<p><b>Bugs Fixed:</b> Fixed CVE Issues: CVE-2016-4482 CVE-2016-4486 CVE-2016-4805 CVE-2016-3138 CVE-2016-2550 CVE-2016-2847 CVE-2016-3134 CVE-2016-3156 CVE-2016-0723 CVE-2016-0821 CVE-2016-5696 CVE-2016-7117 CVE-2016-6828</p> <p><b>Changes:</b> 1. Upgraded root file system from debian7 to debian8. For more package info, please refer to following link: <a href="https://www.debian.org/distrib/packages.en.html">https://www.debian.org/distrib/packages.en.html</a> 2. Upgraded Linux kernel from 3.2 to 4.1.36. For more detail info, please refer to following link:</p>	
				<p><b>New Features:</b></p> <p><b>Enhancements:</b></p>	<p><b>Bugs Fixed:</b></p> <p><b>Changes:</b></p>	

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				<b>New Features:</b>  <b>Enhancements:</b>	<b>Bugs Fixed:</b>  <b>Changes:</b>	
2.1	Build 17072510	linux	UC-8100	<b>New Features:</b> N/A  <b>Enhancements:</b> N/A	<b>Bugs Fixed:</b> N/A  <b>Changes:</b> 1. Updated bootloader to compliant with new memory.	Office release
2.1.2	Build 18031915	Linux	UC-8100	<b>New Features:</b> N/A  <b>Enhancements:</b> N/A	<b>Bugs Fixed:</b> 1. adds the check mechanism for PHY interface with RGMII interface type, the in-band mode can only be set in RGMII mode with 10Mbps speed.  <b>Changes:</b> N/A	beta release

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3	Build 18062518	Linux	UC-8100	<b>New Features:</b> N/A  <b>Enhancements:</b> N/A	<b>Bugs Fixed:</b> 1. add fsck mechanism in bootloader  <b>Changes:</b> 1. Upgraded root file system from debian8 to debian9. For more package info, please refer to following link: <a href="https://www.debian.org/distrib/packages.en.html">https://www.debian.org/distrib/packages.en.html</a> 2. Upgraded Linux kernel from 4.1.36 to 4.4. For more detail info, please refer to following link: <a href="https://www.kernel.org/pub/linux/kernel/v4.x/">https://www.kernel.org/pub/linux/kernel/v4.x/</a> 3. Updated uc8100-system packages. 4. Add new platform packages: moxa-led-control, moxa-uart-control, moxa-push-button. 5. Updated moxa-cellular-utils to 1.32.0, moxa-wifi-utils to 1.5.2	Office release
3.1	Build 18080312	Linux	UC-8100	<b>New Features:</b> N/A  <b>Enhancements:</b> N/A	<b>Bugs Fixed:</b> N/A  <b>Changes:</b> 1. Updated uc8100-system packages. 2. Add new package "firmware-misc-nonfree" for WPER 172GN Wifi module. 3. Updated moxa-cellular-utils to 1.36.3. 4. Fix LED checking in diagnostic function.	Office release



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