



# REALTEK

RTL8363NB  
RTL8364NB  
RTL8365MB-VC  
RTL8367RB-VB  
RTL8367SB  
RTL8367S  
RTL8366SC  
RTL8363SC  
RTL8370MB  
RTL8310SR  
RTL8363NB-VB  
RTL8364NB-VB  
RTL8363SC-VB

## Realtek Unmanaged Switch API Driver Release Note

(CONFIDENTIAL: Development Partners Only)

Rev. 1.3.11  
June 26th, 2017



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**USING THIS DOCUMENT**

This document is intended for use by the system engineer when integrating with Realtek Switch Software SDK. Though every effort has been made to assure that this document is current and accurate, more information may have become available subsequent to the production of this guide. In that event, please contact your Realtek representative for additional information that may help in the development process.

**REVISION HISTORY**

Revision	Release Date	Summary
1.3.11	2017/06/26	<ol style="list-style-type: none"><li>1. Add pseudo Lock/Unlock protection for every API. Users can redefine them in rtk_switch.h to prevent API calls be interrupted in multi-process environment.</li><li>2. Update HSGMII/SGMII configuration in API "rtk_port_macForceLinkExt_set".</li><li>3. Return all 32 bits of group IP address in API "rtk_l2_ipMcastAddr_get", "rtk_l2_ipMcastAddr_next_get", "rtk_l2_ipVidMcastAddr_get", "rtk_l2_ipVidMcastAddr_next_get".</li><li>4. Revise pointer access coding style in driver "rtl8367c_setAsicEavMacAddress".</li><li>5. Revise pointer access coding style in driver "rtl8367c_setAsicL2LookupTb".</li><li>6. Revise pointer access coding style in driver "rtl8367c_setAsicMacAddress".</li><li>7. Revise pointer access coding style in driver "rtl8367c_setAsicSvlanMC2SConf", "rtl8367c_setAsicSvlanSP2CConf"</li></ol>

1.3.10	2017/03/09	<ol style="list-style-type: none"> <li>1. Add more error checking in API "rtk_filter_igrAcl_cfg_add", "rtk_dot1x_eapolFrame2CpuEnable_set" &amp; "rtk_led_operation_set".</li> <li>2. Remove unused error checking in API "rtk_rate_igrBandwidthCtrlRate_set".</li> <li>3. Add variable initialization in API "rtk_l2_entry_get".</li> <li>4. Update configuration parameter in API "rtk_port_phyComboPortMedia_set".</li> <li>5. Update configuration parameter in API "rtk_port_macForceLinkExt_set".</li> <li>6. Update switch initialization parameter in API rtk_switch_init() for following switch chips <ul style="list-style-type: none"> <li>● RTL8370MB</li> <li>● RTL8310SR</li> <li>● RTL8363NB-VB</li> <li>● RTL8364NB-VB</li> <li>● RTL8363SC-VB</li> </ul> </li> <li>7. Fix error configuration of care tag in API "rtk_filter_igrAcl_cfg_get".</li> <li>8. Fix error checking in driver "rtl8367c_getAsicEavPortTimeStamp"</li> <li>9. Fix error checking in driver "rtl8367c_setAsicForceLed" &amp; "rtl8367c_getAsicForceLed"</li> <li>10. Fix error checking in driver "rtl8367c_setAsicLedOperationMode".</li> <li>11. Fix error checking in driver "rtl8367c_setAsicVlanPortAndProtocolBased"</li> <li>12. Fix error checking in driver "rtl8367c_getAsicVlanPortAndProtocolBased".</li> <li>13. Add more error checking in driver "rtl8367c_setAsicIGMPv1Opeartion", "rtl8367c_setAsicIGMPv2Opeartion", "rtl8367c_setAsicIGMPv3Opeartion"</li> <li>14. Add more error checking in driver "rtl8367c_setAsicMLDv1Opeartion" &amp; "rtl8367c_setAsicMLDv2Opeartion".</li> <li>15. Add more error checking in driver "rtl8367c_getAsicMIBsCounter"</li> <li>16. Update extension port configuration parameter in driver "rtl8367c_setAsicPortForceLinkExt", "rtl8367c_sdsReset", "rtl8367c_getSdsLinkStatus", "rtl8367c_setSgmiiNway" &amp; "rtl8367c_getSgmiiNway"</li> </ol>
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1.3.9	2016/08/04	<ol style="list-style-type: none"> <li>1. Add support to new switch product "RTL8363NB-VB", "RTL8364NB-VB" and "RTL8363SC-VB"</li> <li>2. Fix error boundary check in "rtk_filter_igrAcl_cfg_add".</li> <li>3. Revise portmask checking in "rtk_led_enable_set".</li> <li>4. Revise port ID checking in "rtk_led_modeForce_set".</li> <li>5. Revise port ID checking in "rtk_led_modeForce_get".</li> <li>6. Add API "rtk_led_serialModePortmask_set".</li> <li>7. Add API "rtk_led_serialModePortmask_get".</li> <li>8. Add Chip family checking in "rtk_port_phyComboPortMedia_set".</li> <li>9. Add Chip family checking in "rtk_port_phyComboPortMedia_get".</li> <li>10. Add API "rtk_port_sgmiilinkStatus_get".</li> <li>11. Add API "rtk_port_sgmiilNway_set" and "rtk_port_sgmiilNway_get".</li> <li>12. Add support 100Base-X and 1000Base-X in API "rtk_port_macForceLinkExt_set".</li> <li>13. Fix error array index assignment in API "rtk_svlan_checkAndCreateMbr".</li> <li>14. Fix error data writing in driver "rtl8367c_setAsicAclRule".</li> <li>15. Update Green Ethernet configuration in driver "rtl8367c_setAsicGreenEthernet".</li> <li>16. Add driver "rtl8367c_setAsicLedSerialOutput".</li> <li>17. Add driver "rtl8367c_getAsicLedSerialOutput".</li> <li>18. Add driver "rtl8367c_setAsicSdsReg".</li> <li>19. Add driver "rtl8367c_getAsicSdsReg".</li> <li>20. Revise reset procedure in "rtl8367c_sdsReset".</li> <li>21. Add driver "rtl8367c_getSdsLinkStatus".</li> <li>22. Add driver "rtl8367c_setSgmiiNway".</li> <li>23. Add driver "rtl8367c_getSgmiiNway".</li> <li>24. Update driver "rtl8367c_getAsicPortRTCTResult".</li> <li>25. Add API for managing I2C</li> </ol>
1.3.8	2016/01/29	<ol style="list-style-type: none"> <li>1. Update API "rtk_switch_init"</li> <li>2. Add API "rtk_led_groupAbility_set"</li> <li>3. Add API "rtk_led_groupAbility_get"</li> <li>4. Remove endian compile flag in all source files</li> </ol>
1.3.7	2015/10/29	<ol style="list-style-type: none"> <li>1. Update API "rtk_switch_init"</li> <li>2. Update API "rtk_svlan_memberPortEntry_set"</li> <li>3. Update Driver "rtl8367c_setAsicPortExtMode"</li> <li>4. Update rtk_types.h for avoiding compiler warning.</li> <li>5. Add API "rtk_port_sds_reset"</li> <li>6. Add API "rtk_led_OutputEnable_set"</li> <li>7. Add API "rtk_led_OutputEnable_get"</li> <li>8. Update enum definition "rtk_cpu_position_t"</li> </ol>

1.3.6	2015/08/10	<ol style="list-style-type: none"> <li>1. Update API "rtk_port_phyComboPortMedia_set"</li> <li>2. Update API "rtk_switch_init"</li> <li>3. Update API "rtk_port_macForceLinkExt_set"</li> <li>4. Update API "rtk_l2_addr_next_get"</li> <li>5. Update API "rtk_stat_port_get" &amp; rtk_stat_port_getAll"</li> <li>6. Update driver "rtl8367c_setAsicPortRTCTEnable"</li> </ol>
1.3.5	2015/06/05	<ol style="list-style-type: none"> <li>1. Add supporting for new switch: RTL8363SC, RTL8370MB, RTL8310SR</li> <li>2. Update API "rtk_filter_igrAcl_cfg_get"</li> <li>3. Add new API "rtk_port_rtctDisable_set"</li> <li>4. Update API "rtk_qos_schedulingQueue_set"</li> <li>5. Update API "rtk_rate_egrQueueBwCtrlRate_set"</li> <li>6. Update API "rtk_switch_init"</li> <li>7. Update API "rtk_port_phyAutoNegoAbility_set" &amp; "rtk_port_phyAutoNegoAbility_get"</li> <li>8. Update driver "rtl8367c_setAsicPHYReg" &amp; "rtl8367c_getAsicPHYReg"</li> <li>9. Add driver "rtl8367c_setAsicPortRTCTDisable"</li> <li>10. Update driver "rtl8367c_setAsicAprMeter" &amp; "rtl8367c_getAsicAprMeter"</li> <li>11. Update driver "rtl8367c_setAsicSvlanDmacCvidSel"</li> <li>12. Update driver "rtl8367c_getAsicSvlanDmacCvidSel"</li> </ol>
1.3.4	2015/01/06	<ol style="list-style-type: none"> <li>1. Add support new switch "RTL8366SC"</li> <li>2. Enable Dynamic router porting learning in API "rtk_igmp_init"</li> <li>3. Update Fiber port parameter in API "rtk_port_phyComboPortMedia_set"</li> <li>4. Update QoS parameter in API "rtk_qos_init"</li> <li>5. Modify Configuration in API "rtk_rldp_config_set"</li> <li>6. Update HSGMII parameter in API "rtk_switch_init"</li> <li>7. Update HSGMII parameter in driver "rtl8367c_setAsicPortExtMode"</li> </ol>
1.3.3	2014/10/08	<ol style="list-style-type: none"> <li>1. Update API rtk_switch_init</li> <li>2. Update API rtk_port_phyComboPortMedia_set</li> <li>3. Update API rtk_port_macForceLinkExt_set</li> <li>4. Update API rtk_port_macForceLinkExt_get</li> <li>5. Update API rtk_port_phyStatus_get</li> <li>6. Update Driver rtl8367c_setAsicPortRTCT</li> <li>7. Update Driver rtl8367c_setAsicEavPortInterruptStatus</li> <li>8. Update Driver rtl8367c_getAsicEavPortInterruptStatus</li> <li>9. Update Driver rtl8367c_setAsicEavPortEnable</li> <li>10. Update Driver rtl8367c_getAsicEavPortEnable</li> <li>11. Update Driver rtl8367c_getAsicEavPortTimeStamp</li> </ol>

1.3.2	2014/07/21	<ol style="list-style-type: none"> <li>1. Update API rtk_switch_init</li> <li>2. Update API rtk_port_phyComboPortMedia_set</li> <li>3. Update API rtk_port_phyComboPortMedia_get</li> <li>4. Update API rtk_port_macForceLinkExt_set</li> <li>5. Update API rtk_port_macStatus_get</li> <li>6. Update API rtk_qos_init</li> <li>7. Update API rtk_stat_port_getAll</li> </ol>
1.3.1	2014/06/09	<ol style="list-style-type: none"> <li>1. Update API rtk_eee_portEnable_set to control EEE</li> <li>2. Update API rtk_port_phyAutoNegoAbility_set</li> <li>3. Update API rtk_port_phyAutoNegoAbility_get</li> <li>4. Update API rtk_port_phyForceModeAbility_set</li> <li>5. Update API rtk_port_phyForceModeAbility_get</li> <li>6. Update API rtk_port_phyStatus_get</li> <li>7. Update API rtk_port_phyReg_set</li> <li>8. Update API rtk_port_phyReg_get</li> <li>9. Update API rtk_port_phyEnableAll_set</li> <li>10. Update API rtk_switch_init</li> <li>11. Update API rtk_switch_greenEthernet_set</li> <li>12. Update API rtk_switch_greenEthernet_get</li> <li>13. Update driver rtl8367c_asicdrv_eee.c</li> <li>14. Update driver rtl8367c_asicdrv_green.c</li> <li>15. Update driver rtl8367c_asicdrv_port.c</li> <li>16. Update driver rtl8367c_asicdrv_phy.c</li> <li>17. Add driver rtl8367c_asicdrv_oam.c</li> <li>18. Add driver rtl8367c_asicdrv_oam.h</li> <li>19. Add driver rtl8367c_asicdrv_rldp.c</li> <li>20. Add driver rtl8367c_asicdrv_rldp.h</li> </ol>
1.3.0	2014/03/17	<ol style="list-style-type: none"> <li>1. First release</li> </ol>

# Unmanaged Switch API Driver V1.3.11 Release Note

Revision	Release Date	Summary
1.3.11	2017/06/26	<ol style="list-style-type: none"> <li>1. Add pseudo Lock/Unlock protection for every API. Users can redefine them in rtk_switch.h to prevent API calls be interrupted in multi-process environment.</li> <li>2. Update HSGMII/SGMII configuration.</li> <li>3. Return all 32 bits of group IP address in API for retrieving multicast group.</li> </ol>
<p>The package includes:</p> <ol style="list-style-type: none"> <li>1. Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li> <li>2. Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li> <li>3. API_Source – Realtek API and driver source code.</li> <li>4. Supported chips: <ol style="list-style-type: none"> <li>I. RTL8363NB</li> <li>II. RTL8364NB</li> <li>III. RTL8365MB-VC</li> <li>IV. RTL8367RB-VB</li> <li>V. RTL8367SB</li> <li>VI. RTL8363NB-VB</li> <li>VII. RTL8364NB-VB</li> <li>VIII. RTL8367S</li> <li>IX. RTL8366SC</li> <li>X. RTL8363SC</li> <li>XI. RTL8370MB</li> <li>XII. RTL8310SR</li> <li>XIII. RTL8363SC-VB</li> </ol> </li> </ol> <p><u>Changes</u></p> <ol style="list-style-type: none"> <li>1. Update the following API. <ul style="list-style-type: none"> <li>✓ rtk_port_macForceLinkExt_set</li> <li>✓ rtk_l2_ipMcastAddr_get &amp; rtk_l2_ipMcastAddr_next_get</li> <li>✓ rtk_l2_ipVidMcastAddr_get &amp; rtk_l2_ipVidMcastAddr_next_get</li> </ul> </li> <li>2. Update the following driver. <ul style="list-style-type: none"> <li>✓ rtl8367c_setAsicEavMacAddress</li> <li>✓ rtl8367c_setAsicL2LookupTb</li> <li>✓ rtl8367c_setAsicMacAddress</li> <li>✓ rtl8367c_setAsicSvlanMC2SConf &amp; rtl8367c_setAsicSvlanSP2CConf</li> </ul> </li> </ol>		



## Unmanaged Switch API Driver V1.3.10 Release Note

Revision	Release Date	Summary
1.3.10	2017/03/09	<ol style="list-style-type: none"> <li>1. Update API "rtk_switch_init" for updating initialization parameter for RTL8370MB, RTL8310SR, RTL8363SC-VB, RTL8363NB-VB, RTL8364NB-VB</li> <li>2. Add more error checking in API &amp; driver to return fail reason.</li> <li>3. Update configuration for combo port.</li> <li>4. Update configuration for external port.</li> </ol>
<p>The package includes:</p> <ol style="list-style-type: none"> <li>1. Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li> <li>2. Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li> <li>3. API_Source – Realtek API and driver source code.</li> <li>4. Supported chips: <ol style="list-style-type: none"> <li>I. RTL8363NB</li> <li>II. RTL8364NB</li> <li>III. RTL8365MB-VC</li> <li>IV. RTL8367RB-VB</li> <li>V. RTL8367SB</li> <li>VI. RTL8363NB-VB</li> <li>VII. RTL8364NB-VB</li> <li>VIII. RTL8367S</li> <li>IX. RTL8366SC</li> <li>X. RTL8363SC</li> <li>XI. RTL8370MB</li> <li>XII. RTL8310SR</li> <li>XIII. RTL8363SC-VB</li> </ol> </li> </ol> <p><u>Changes</u></p> <ol style="list-style-type: none"> <li>1. Update the following API. <ul style="list-style-type: none"> <li>✓ rtk_switch_init</li> <li>✓ rtk_port_phyComboPortMedia_set</li> <li>✓ rtk_filter_igrAcl_cfg_add</li> <li>✓ rtk_port_macForceLinkExt_set</li> <li>✓ rtk_dot1x_eapolFrame2CpuEnable_set</li> <li>✓ rtk_led_operation_set</li> <li>✓ rtk_rate_igrBandwidthCtrlRate_set</li> <li>✓ rtk_l2_entry_get</li> </ul> </li> </ol>		

## Unmanaged Switch API Driver V1.3.9 Release Note

Revision	Release Date	Summary
1.3.9	2016/08/04	<ol style="list-style-type: none"> <li>1. Add support to new switch product "RTL8363NB-VB", "RTL8364NB-VB" and "RTL8363SC-VB"</li> <li>2. Add Serial LED support.</li> <li>3. Add 100Base-X and 1000Base-X support</li> <li>4. Add Serdes status API</li> <li>5. Error Fixed</li> </ol>

The package includes:

- 甲、 Realtek\_Unmanaged\_Switch\_API\_Document.pdf - Realtek Unmanaged Switch API
- 乙、 Realtek\_Unmanaged\_Switch\_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.
- 丙、 API\_Source – Realtek API and driver source code.
- 丁、 Supported chips:
- |                   |                    |
|-------------------|--------------------|
| I. RTL8363NB      | VIII. RTL8367S     |
| II. RTL8364NB     | IX. RTL8366SC      |
| III. RTL8365MB-VC | X. RTL8363SC       |
| IV. RTL8367RB-VB  | XI. RTL8370MB      |
| V. RTL8367SB      | XII. RTL8310SR     |
| VI. RTL8363NB-VB  | XIII. RTL8363SC-VB |
| VII. RTL8364NB-VB |                    |

### Changes

#### 1. Add the following API.

- ✓ rtk\_led\_serialModePortmask\_set & rtk\_led\_serialModePortmask\_get
- ✓ rtk\_port\_sgmiiLinkStatus\_get
- ✓ rtk\_port\_sgmiiNway\_set & rtk\_port\_sgmiiNway\_get
- ✓ rtk\_i2c\_init, rtk\_i2c\_data\_write, rtk\_i2c\_data\_read, rtk\_i2c\_mode\_set & rtk\_i2c\_mode\_get
- ✓ rtk\_i2c\_gpioPinGroup\_set & rtk\_i2c\_gpioPinGroup\_get

#### 2. Update the following API.

- ✓ rtk\_switch\_init
- ✓ rtk\_port\_phyComboPortMedia\_set & rtk\_port\_phyComboPortMedia\_get
- ✓ rtk\_filter\_igrAcl\_cfg\_add
- ✓ rtk\_led\_enable\_set, rtk\_led\_modeForce\_set & rtk\_led\_modeForce\_get
- ✓ rtk\_port\_macForceLinkExt\_set

## Unmanaged Switch API Driver V1.3.8 Release Note

Revision	Release Date	Summary
1.3.8	2016/01/29	<ol style="list-style-type: none"> <li>1. Remove Endian Compiler flag in all source files.</li> <li>2. Update API "rtk_igmp_groupInfo_get" for getting IGMP group information</li> <li>3. Add API "rtk_led_groupAbility_set" &amp; "rtk_led_groupAbility_get"</li> <li>4. Update API "rtk_switch_init" for updating initialization parameter for RTL8370MB &amp; RTL8310SR.</li> </ol>
<p>The package includes:</p> <ol style="list-style-type: none"> <li>1. Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li> <li>2. Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li> <li>3. API_Source – Realtek API and driver source code.</li> <li>4. Supported chips: <ol style="list-style-type: none"> <li>I. RTL8363NB</li> <li>II. RTL8364NB</li> <li>III. RTL8365MB-VC</li> <li>IV. RTL8367RB-VB</li> <li>V. RTL8367SB</li> <li>VI. RTL8367S</li> <li>VII. RTL8366SC</li> <li>VIII. RTL8363SC</li> <li>IX. RTL8370MB</li> <li>X. RTL8310SR</li> </ol> </li> </ol> <p><u>Changes</u></p> <ol style="list-style-type: none"> <li>1. Add the following API. <ul style="list-style-type: none"> <li>✓ rtk_led_groupAbility_set</li> <li>✓ rtk_led_groupAbility_get</li> </ul> </li> <li>2. Update the following API. <ul style="list-style-type: none"> <li>✓ rtk_switch_init</li> </ul> </li> <li>3. Remove endian compiler flag in all source files</li> </ol>		

## Unmanaged Switch API Driver V1.3.7 Release Note

Revision	Release Date	Summary
1.3.7	2015/10/29	<ol style="list-style-type: none"> <li>1. Update SVLAN Deletion procedure</li> <li>2. Update HSGMII port configuration</li> <li>3. Add initial parameter for RTL8367S</li> <li>4. Update rtk_types.h for avoiding compiler warning.</li> <li>5. Add API "rtk_port_sds_reset"</li> <li>6. Add API "rtk_led_OutputEnable_set" &amp; "rtk_led_OutputEnable_get"</li> <li>7. Update enum definition "rtk_cpu_position_t"</li> </ol>
<p>The package includes:</p> <ol style="list-style-type: none"> <li>1. Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li> <li>2. Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li> <li>3. API_Source – Realtek API and driver source code.</li> <li>4. Supported chips: <ol style="list-style-type: none"> <li>I. RTL8363NB</li> <li>II. RTL8364NB</li> <li>III. RTL8365MB-VC</li> <li>IV. RTL8367RB-VB</li> <li>V. RTL8367SB</li> <li>VI. RTL8367S</li> <li>VII. RTL8366SC</li> <li>VIII. RTL8363SC</li> <li>IX. RTL8370MB</li> <li>X. RTL8310SR</li> </ol> </li> </ol> <p><u>Changes</u></p> <ol style="list-style-type: none"> <li>1. Add the following API. <ul style="list-style-type: none"> <li>✓ rtk_port_sds_reset</li> <li>✓ rtk_led_OutputEnable_set</li> <li>✓ rtk_led_OutputEnable_get</li> </ul> </li> <li>2. Update the following API. <ul style="list-style-type: none"> <li>✓ rtk_switch_init</li> <li>✓ rtk_svlan_memberPortEntry_set</li> </ul> </li> <li>3. Update the following driver <ul style="list-style-type: none"> <li>✓ rtl8367c_setAsicPortExtMode</li> </ul> </li> <li>4. Update the following definition <ul style="list-style-type: none"> <li>✓ rtk_cpu_position_t</li> </ul> </li> </ol>		

## Unmanaged Switch API Driver V1.3.6 Release Note

Revision	Release Date	Summary
1.3.6	2015/08/10	<ol style="list-style-type: none"> <li>1. Update Fiber Port configuration</li> <li>2. Update HSGMII port configuration</li> <li>3. Update initial parameter for RTL8370MB, RTL8310SR</li> <li>4. Update MIB API for RTL8370MB, RTL8310SR</li> </ol>
<p>The package includes:</p> <ol style="list-style-type: none"> <li>1. Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li> <li>2. Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li> <li>3. API_Source – Realtek API and driver source code.</li> <li>4. Supported chips: <ol style="list-style-type: none"> <li>I. RTL8363NB</li> <li>II. RTL8364NB</li> <li>III. RTL8365MB-VC</li> <li>IV. RTL8367RB-VB</li> <li>V. RTL8367SB</li> <li>VI. RTL8366SC</li> <li>VII. RTL8363SC</li> <li>VIII. RTL8370MB</li> <li>IX. RTL8310SR</li> </ol> </li> </ol> <p><u>Changes</u></p> <ol style="list-style-type: none"> <li>1. Update the following API. <ul style="list-style-type: none"> <li>✓ rtk_switch_init</li> <li>✓ rtk_port_phyComboPortMedia_set</li> <li>✓ rtk_port_macForceLinkExt_set</li> <li>✓ rtk_l2_addr_next_get</li> <li>✓ rtk_stat_port_get &amp; rtk_stat_port_getAll</li> </ul> </li> <li>2. Update the following driver <ul style="list-style-type: none"> <li>✓ rtl8367c_setAsicPortRTCTEnable</li> </ul> </li> </ol>		

## Unmanaged Switch API Driver V1.3.5 Release Note

Revision	Release Date	Summary
1.3.5	2015/06/05	<ol style="list-style-type: none"> <li>1. Add new switch supporting</li> <li>2. Fix Queue Weight Setting</li> <li>3. Fix Meter ID checking</li> <li>4. Add RTCT Disable API</li> </ol>
<p>The package includes:</p> <ol style="list-style-type: none"> <li>1. Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li> <li>2. Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li> <li>3. API_Source – Realtek API and driver source code.</li> <li>4. Supported chips: <ol style="list-style-type: none"> <li>I. RTL8363NB</li> <li>II. RTL8364NB</li> <li>III. RTL8365MB-VC</li> <li>IV. RTL8367RB-VB</li> <li>V. RTL8367SB</li> <li>VI. RTL8366SC</li> <li>VII. RTL8363SC</li> <li>VIII. RTL8370MB</li> <li>IX. RTL8310SR</li> </ol> </li> </ol> <p><u>Changes</u></p> <ol style="list-style-type: none"> <li>1. Update the following API. <ul style="list-style-type: none"> <li>✓ rtk_switch_init</li> <li>✓ rtk_filter_igrAcl_cfg_get</li> <li>✓ rtk_port_rtctDisable_set</li> <li>✓ rtk_qos_schedulingQueue_set</li> <li>✓ rtk_rate_egrQueueBwCtrlRate_set</li> <li>✓ rtk_port_phyAutoNegoAbility_set &amp; rtk_port_phyAutoNegoAbility_get</li> </ul> </li> <li>2. Update the following driver <ul style="list-style-type: none"> <li>✓ rtl8367c_setAsicPHYReg &amp; rtl8367c_getAsicPHYReg</li> <li>✓ rtl8367c_setAsicAprMeter &amp; rtl8367c_getAsicAprMeter</li> <li>✓ rtl8367c_setAsicSvlanDmacCvidSel &amp; rtl8367c_setAsicSvlanDmacCvidSel</li> <li>✓ rtl8367c_setAsicPortRTCTDisable</li> </ul> </li> </ol>		

## Unmanaged Switch API Driver V1.3.4 Release Note

Revision	Release Date	Summary
1.3.4	2015/01/06	<ol style="list-style-type: none"> <li>1. Add new switch supporting</li> <li>2. Enable Dynamic router port learning</li> <li>3. Update API &amp; driver for HSGMII &amp; Fiber port configuration</li> <li>4. Update API for QoS &amp; RLDP configuration</li> </ol>
<p>The package includes:</p> <ol style="list-style-type: none"> <li>1. Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li> <li>2. Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li> <li>3. API_Source – Realtek API and driver source code.</li> <li>4. Supported chips: <ul style="list-style-type: none"> <li>✓ Switch chips: <ol style="list-style-type: none"> <li>I. RTL8363NB</li> <li>II. RTL8364NB</li> <li>III. RTL8365MB-VC</li> <li>IV. RTL8367RB-VB</li> <li>V. RTL8367SB</li> <li>VI. RTL8366SC</li> </ol> </li> </ul> </li> </ol> <p><u>Changes</u></p> <ol style="list-style-type: none"> <li>1. Update the following API. <ul style="list-style-type: none"> <li>✓ rtk_switch_init</li> <li>✓ rtk_port_phyComboPortMedia_set</li> <li>✓ rtk_igmp_init</li> <li>✓ rtk_qos_init</li> <li>✓ rtk_rldp_config_set</li> </ul> </li> <li>2. Update the following driver <ul style="list-style-type: none"> <li>✓ rtl8367c_setAsicPortExtMode</li> </ul> </li> </ol>		

## Unmanaged Switch API Driver V1.3.3 Release Note

Revision	Release Date	Summary
1.3.3	2014/10/08	<ol style="list-style-type: none"> <li>1. Update API &amp; driver for HSGMII &amp; Fiber port configuration</li> <li>2. Update API &amp; driver for PHY status reading</li> <li>3. Update initialization parameter</li> </ol>
<p>The package includes:</p> <ol style="list-style-type: none"> <li>1. Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li> <li>2. Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li> <li>3. API_Source – Realtek API and driver source code.</li> <li>4. Supported chips: <ul style="list-style-type: none"> <li>✓ Switch chips: <ol style="list-style-type: none"> <li>I. RTL8363NB</li> <li>II. RTL8364NB</li> <li>III. RTL8365MB-VC</li> <li>IV. RTL8367RB-VB</li> <li>V. RTL8367SB</li> </ol> </li> </ul> </li> </ol> <p><u>Changes</u></p> <ol style="list-style-type: none"> <li>1. Update the following API. <ul style="list-style-type: none"> <li>✓ rtk_switch_init</li> <li>✓ rtk_port_phyComboPortMedia_set</li> <li>✓ rtk_port_macForceLinkExt_set</li> <li>✓ rtk_port_macForceLinkExt_get</li> <li>✓ rtk_port_phyStatus_get</li> </ul> </li> <li>2. Update the following driver <ul style="list-style-type: none"> <li>✓ rtl8367c_setAsicPortRTCT</li> <li>✓ rtl8367c_setAsicEavPortInterruptStatus</li> <li>✓ rtl8367c_getAsicEavPortInterruptStatus</li> <li>✓ rtl8367c_setAsicEavPortEnable</li> <li>✓ rtl8367c_getAsicEavPortEnable</li> <li>✓ rtl8367c_getAsicEavPortTimeStamp</li> </ul> </li> </ol>		



## Unmanaged Switch API Driver V1.3.2 Release Note

Revision	Release Date	Summary
1.3.2	2014/07/21	<ol style="list-style-type: none"><li>1. Update API &amp; driver for port &amp; statistic function</li><li>2. Update initialization parameter</li></ol>
<p>The package includes:</p> <ol style="list-style-type: none"><li>1. Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li><li>2. Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li><li>3. API_Source – Realtek API and driver source code.</li><li>4. Supported chips:<ul style="list-style-type: none"><li>✓ Switch chips:</li><li>I. RTL8363NB</li><li>II. RTL8364NB</li><li>III. RTL8365MB-VC</li><li>IV. RTL8367RB-VB</li><li>V. RTL8367SB</li></ul></li></ol> <p><u>Changes</u></p> <ol style="list-style-type: none"><li>1. Update the following API.<ul style="list-style-type: none"><li>✓ rtk_switch_init</li><li>✓ rtk_port_phyComboPortMedia_set</li><li>✓ rtk_port_phyComboPortMedia_get</li><li>✓ rtk_port_macForceLinkExt_set</li><li>✓ rtk_port_macStatus_get</li><li>✓ rtk_qos_init</li><li>✓ rtk_stat_port_getAll</li></ul></li></ol>		

## Unmanaged Switch API Driver V1.3.1 Release Note

Revision	Release Date	Summary
1.3.1	2014/06/09	<ol style="list-style-type: none"> <li>Update API &amp; driver for port function</li> <li>Add OAM &amp; RLDP driver</li> </ol>
<p>The package includes:</p> <ol style="list-style-type: none"> <li>Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li> <li>Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li> <li>API_Source – Realtek API and driver source code.</li> <li>Supported chips: <ul style="list-style-type: none"> <li>✓ Switch chips: <ol style="list-style-type: none"> <li>RTL8363NB</li> <li>RTL8364NB</li> <li>RTL8365MB-VC</li> <li>RTL8367RB-VB</li> <li>RTL8367SB</li> </ol> </li> </ul> </li> </ol> <p><u>Changes</u></p> <ol style="list-style-type: none"> <li>Update the following API. <ul style="list-style-type: none"> <li>✓ rtk_eee_portEnable_set</li> <li>✓ rtk_port_phyAutoNegoAbility_set &amp; rtk_port_phyAutoNegoAbility_get</li> <li>✓ rtk_port_phyForceModeAbility_set &amp; rtk_port_phyForceModeAbility_get</li> <li>✓ rtk_port_phyStatus_get</li> <li>✓ rtk_port_phyReg_set &amp; rtk_port_phyReg_get</li> <li>✓ rtk_port_phyEnableAll_set</li> <li>✓ rtk_switch_init</li> <li>✓ rtk_switch_greenEthernet_set &amp; rtk_switch_greenEthernet_get</li> </ul> </li> <li>Update the following driver <ul style="list-style-type: none"> <li>✓ rtl8367c_asicdrv_eee.c</li> <li>✓ rtl8367c_asicdrv_green.c</li> <li>✓ rtl8367c_asicdrv_port.c</li> <li>✓ rtl8367c_asicdrv_phy.c</li> </ul> </li> <li>Add the following driver <ul style="list-style-type: none"> <li>✓ rtl8367c_asicdrv_oam.c &amp; rtl8367c_asicdrv_oam.h</li> <li>✓ rtl8367c_asicdrv_rldp.c &amp; rtl8367c_asicdrv_rldp.h</li> </ul> </li> </ol>		

## Unmanaged Switch API Driver V1.3.0 Release Note

Revision	Release Date	Summary
1.3.0	2014/03/17	1. First Release
<p>The package includes:</p> <ol style="list-style-type: none"> <li>1. Realtek_Unmanaged_Switch_API_Document.pdf - Realtek Unmanaged Switch API</li> <li>2. Realtek_Unmanaged_Switch_ProgrammingGuide.pdf - Realtek Unmanaged Switch programming guide.</li> <li>3. API_Source – Realtek API and driver source code.</li> <li>4. Supported chips: <ul style="list-style-type: none"> <li>✓ Switch chips: <ol style="list-style-type: none"> <li>I. RTL8363NB</li> <li>II. RTL8364NB</li> <li>III. RTL8365MB-VC</li> <li>IV. RTL8367RB-VB</li> <li>V. RTL8367SB</li> </ol> </li> </ul> </li> </ol> <p><u>Changes</u></p> <p>N/A</p>		