

**Software Name:** Firmware for ICS-G7852A Series

Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/ Enhancements	Bugs Fixed/Changes	Note
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v5.6	Build_18110819	N/A	ICS-G7852A Series	<p><b>New Features:</b></p> <p>Layer 3:</p> <ol style="list-style-type: none"> <li>1. Supports tracking function</li> <li>2. Supports DSCP remark</li> <li>3. Supports traceroute in CLI command</li> </ol> <p>Security Related Functions</p> <ol style="list-style-type: none"> <li>1. System Notification: Definable successful/failed login notification.</li> <li>2. Password Policy: Password strength can be set.</li> <li>3. Account Lockout Policy: Failure threshold and lockout time can be set.</li> <li>4. Log Management: Full log handling.</li> <li>5. Remote Access Interface Enable/Disable.</li> <li>6. Configuration Encryption with password.</li> <li>7. Support SSL certification import.</li> <li>8. Support MAC authentication bypass via RADIUS authentication.</li> <li>9. MAC Address access control list or MAC address filtering.</li> <li>10. Protect against MAC flooding attack by MAC address sticky.</li> <li>11. NTP authentication to prevent NTP DDoS attack.</li> <li>12. Login Authentication: Support primary &amp; backup database servers (RADIUS / TACACS+ / Local Account).</li> <li>13. Login Authentication via RADIUS Server: Support Challenge Handshake Authentication Protocol (CHAP) authentication mechanism.</li> <li>14. RADIUS Authentication: Support EAP-MSCHAPv2 (For Windows 7).</li> </ol>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>1. Fix abnormal display of packet counter in the web GUI.</li> <li>2. When the device receives large amounts of BPDU packets on a port, the RSTP function does not enable, which might cause the device to reboot.</li> <li>3. If there is an '&amp;' in either the Switch Name or Switch Location column, the description will not display properly on the relevant page.</li> <li>4. If Turbo Chain is established on slot 9 it might not be stable.</li> </ol> <p><b>Changes:</b></p> <ol style="list-style-type: none"> <li>1. Remove the VEE indicator on the PoE function</li> <li>2. Rate limit adds more options on the ingress rate</li> </ol>	<p>Suggestion:</p> <ol style="list-style-type: none"> <li>1. Reconfigure the device once you have upgraded to v5.x</li> <li>2. To ensure that the system remains stable, do not export configurations from v4.x or prior into v5.x or later</li> </ol>

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				<p>15. MXview Security View Feature Support* (with MXstudio V2.4).</p> <p>Redundancy 1. Turbo Ring v2, Turbo Chain Support Port Trunking</p> <p>Redundancy 1. Turbo Ring v2, Turbo Chain Support Port Trunking</p> <p><b>Enhancements:</b></p> <ol style="list-style-type: none"> <li>1. Web GUI supports web browser Chrome 65.0</li> <li>2. CLI: Supports Multiple Sessions (up to six).</li> <li>3. SMTP Supports Transport Layer Security (TLS) Protocol and Removes SSL v2/v3.</li> <li>4. SNMPv3 Traps and Informs.</li> <li>5. Display Issues with Java Applet.</li> <li>6. Fiber Check: Add Threshold Alarm.</li> <li>7. Static Port Lock with VLAN filtering option.</li> <li>8. When GbE Port Speed is [Auto], MDI/MDIX is [Auto] Fixed.</li> <li>9. Web UI/CLI Command Enhancement and Modification.</li> </ol>		

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v4.3	Build_16070716	N/A	ICS-G7852A-4XG-HV-HV	<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>1. Fixed Fast VRRP instances with double Masters issue when enabling the loop protection function.</li> <li>2. Fixed config import issue (ACL &amp; Multicast local route).</li> <li>3. If the switch had a PoE module and a SFP module, the SFP module may not link when rebooting.</li> <li>4. Fixed L3 switch reboot when enabling OSPF.</li> <li>5. VRRP (V-ON) was unstable when fiber port experienced link-down.</li> <li>6. VRRP (V-ON) backup unit caused CPU to experience very high loading and the web UI was very slow.</li> </ol> <p><b>Changes:</b> N/A</p>	N/A
v4.2	Build_15062312	N/A	ICS-G7852A-4XG-HV-HV	<p><b>New Features:</b></p> <ol style="list-style-type: none"> <li>1. Added new Multicast Fast Forwarding Mode.</li> <li>2. Added new VRRP Fast Switchover Mode.</li> <li>3. Added new Multicast Local Route.</li> </ol> <p><b>Enhancements:</b></p> <ol style="list-style-type: none"> <li>1. Increase IGMP Groups to 4096 (original 1000 groups).</li> <li>2. Improve Turbo Chain link status check mechanism at the head port.</li> </ol>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>1. Device rebooted when it used CLI commands to back up device configurations to the TFTP server.</li> <li>2. Device rebooted when using CLI commands to change SNMP v3 data encryption key and the length of the key is over 100 characters.</li> </ol> <p><b>Changes:</b> N/A</p>	N/A

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v4.1	Build_15030209	N/A	ICS-G7852A-4XG-HV-HV	<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>1. PIM-SM multicast forwarding issues.</li> <li>2. Randomly hang issue while booting up.</li> <li>3. Flow control did not work on the ICS-G7852A Series.</li> <li>4. Topology drawing issue on MXview.</li> <li>5. In IGMPv3, forward multicast packets on MSTP DISABLED-STATUS port failed.</li> <li>6. Failed to add Static default route (0.0.0.0/0) through Web console.</li> <li>7. Randomly failed to recognize Moxa SFP modules.</li> <li>8. In OSPF routing protocol, 10 G ports had incorrect path cost.</li> <li>9. Randomly failed to connect to the ABC-02.</li> <li>10. HTTPS certification validity issue.</li> <li>11. Reboot issue while TFTP upgrading firmware with incorrect CLI command.</li> <li>12. ACL CLI command failed on rules with Ether-type is 0 or IP-protocol is 0.</li> <li>13. Hang issue while IGMP join and leave frequently.</li> </ol> <p><b>Changes:</b> N/A</p>	N/A
v4.0	Build_14093015	N/A	ICS-G7852A-4XG-HV-HV	<p><b>New Features:</b> 1. First release for the ICS-G7852A Series.</p> <p><b>Enhancements:</b> N/A</p>	<p><b>Bugs Fixed:</b> N/A</p> <p><b>Changes:</b> N/A</p>	N/A