Software Name: ioLogik E1212 Firmware

Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/Enhancements	Bugs Fixed/Changes	Note
1.8	Build11092917	N/A	ioLogik E1212	**New Features:** 1. Added Locating I/O function in General Settings. 2. Added Modbus address function code=0x08 for "ECHO" function. 3. Counter overflow status is displayed on Channel Settings, and can be manually cleared. 4. Added Modbus address for Peer-to-peer connection and safe mode status. 5. Peer-to-peer connection and safe mode status are displayed on Channels Safe Mode Settings. **Enhancements:** N/A	**Bugs Fixed:** N/A **Changes:** N/A	N/A
1.9	Build11112413	N/A	ioLogik E1212	**New Features:** N/A **Enhancements:** 1. Ensured system to work properly after unstable power condition.	**Bugs Fixed:** N/A **Changes:** N/A	N/A
1.10	Build12010416	N/A	ioLogik E1212	**New Features:** N/A **Enhancements:** 1. Wording change for DO pulse output	**Bugs Fixed:** N/A **Changes:** N/A	N/A
2.0	Build13041515	N/A	ioLogik E1212	**New Features:** 1. Support SNMP protocol 2. Add P2P heartbeat function **Enhancements:** N/A	**Bugs Fixed:** 1. When power failing, counter storage fail **Changes:** N/A	1. This version of firmware works with the ioSearch V1.5 or later only 2. Use web console when upgrading firmware from

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2.3	Build15031013	N/A	ioLogik E1212	**New Features:** 1. Support ioLogik 2500 expansion mode 2. Support safe mode auto-clear function 3. Support counter initial value function 4. Support DO Power ON Delay function **Enhancements:** N/A	**Bugs Fixed:** 1. P2P Heart beat interval unable to disable 2. When the Heart beat Interval Time = 0, the P2P server will reconnect continuously 3. When P2P client heartbeat is set larger than 256, the time interval will be incorrect 4. When one DI channel mapping to multiple DO channels in P2P mode, the update interval will be fixed **Changes:** N/A	N/A
2.4	Build16053018	N/A	ioLogik E1212	**New Features:** 1. Improve protocol efficiency with ioLogik 2500 series **Enhancements:** N/A	**Bugs Fixed:** N/A **Changes:** N/A	N/A
2.5	Build16091211	N/A	ioLogik E1212	**New Features:** 1. Added EtherNet/IP protocol. 2. Added RESTful API. 3. Added new registers for Modbus/TCP protocol. 4. Added new OIDs of SNMP protocol. 5. Modbus, EtherNet/IP, RESTful Services can be disabled (default: enable). 6. Added sending heartbeat to 9500 port of MX-AOPC UA Server after heartbeat function is enabled. 7. Increased password length from 8 to 16. 8. Added checking special character function for preventing from Cross-Site Scripting 9. Changed sending password from GET to POST method. **Enhancements:**	**Bugs Fixed:** 1. Fixed file transfer with Chrome browser issue (e.g. firmware update, configuration import or export). **Changes:** N/A	N/A

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3.0	Build17111512	N/A	ioLogik E1212	**New Features:** 1. Added OPTIONS method for RESTful API 2. Added quick access URI for RESTful API **Enhancements:** 1. Added SNMP Trap Community Setting on web console 2. Mentioned max. 16 characters on password setting page	**Bugs Fixed:** 1. Fixed DHCP lease time did not ask for extension when half of the lease time elapsed. 2. Closed IP forwarding function (Port 0). 3. Closed UDP Port 161 when SNMP agent is disabled. 4. Fixed RESTful API header case-sensitive issue. 5. Fixed invalid token issue on login page when using Firefox. **Changes:**	1. This version of firmware works with the ioSearch V2.0 or later only 2. Update only the next or the previous released firmware version to prevent from system failure

Warning: To avoid system failure while updating the firmware, follow the instructions given in Appendix I in ioLogik E1200 series user's manual.