

MIX-IP / MAX-IP

Multiprotocol I/O Modules

MIX-IP / MAX-IP Software Bundle 7.1

2025

The list below contains modifications and new features since the release of software bundle version 7.0.

NAME	DESCRIPTION
MIX-IP / MAX-IP Ver. 7.1 Release date 18 Jun 2025	New functionalities: <ul style="list-style-type: none">BACnet Protocol Revision 22 UpdateNew B-SS (BTL-31279) and B-SA (BTL-31261) BACnet Conformance CertificateNew services and objects added according to BACnet 1.22 standard<ul style="list-style-type: none">added ReinitializeDevice serviceadded ReadRange serviceadded Network Port objectAdded support for custom Modbus intermessage delay for RS485 Gateway function Improvements: <ul style="list-style-type: none">ASV (Application software version) value changed to 1.0Send Modbus Error Codes supported and can be enabled/disabled in both IP and RS485 I/O Modules Fixed bugs: <ul style="list-style-type: none">New BACnet ID not accepted after reload settings

iSMA-B-MIX-IP Software Bundle 7.0

2023

The list below contains modifications and new features since the release of software bundle version 6.5.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 7.0 Release date 10 Nov 2023	New functionalities: <ul style="list-style-type: none">DHCP client feature added to request IP configuration from a DHCP server; disabled by defaultAdded Modbus TCP socket counter Improvements: <ul style="list-style-type: none">Rebranded webserver Fixed bugs: <ul style="list-style-type: none">BACnet Application Software Version value changed to fixed 1.0

The list below contains modifications and new features since the release of software bundle version 6.4.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 6.5 Release date 13 Oct 2020	Improvements: <ul style="list-style-type: none">the default BBMD IP address set to 0.0.0.0;registering to the BBMD server is disabled if the BBMD IP address is left default;added option to disable the web server access by setting the HTTP port to 0. Fixed bugs: <ul style="list-style-type: none">fixed Modbus statistics on www: Modbus Received / Error /Transmitted Frames.

The list below contains modifications and new features since the release of software bundle version 6.3.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 6.4 Release date 3 Jun 2020	Fixed bugs: <ul style="list-style-type: none">fixed TCP/UDP/IP stack issue, caused by 6.3 firmware that may have frozen BACnet IP communication;temperature value of disconnected sensor on UI restored to min/max INT value, issue caused by 6.3 firmware.

The list below contains modifications and new features since the release of software bundle version 6.2.

NAME	DESCRIPTION																
iSMA-B-MIX-IP Ver. 6.3 Release date 3 Mar 2020	<p>New functionalities:</p> <ul style="list-style-type: none"> new temperature sensors implemented in Celsius and Fahrenheit degrees: <table border="1"> <thead> <tr> <th>Celsius</th><th>Fahrenheit</th></tr> </thead> <tbody> <tr> <td>NI1000 21C</td><td>10K Type2 NTC B=3975K</td></tr> <tr> <td>NI1000 LG</td><td>10K Type3 NTC B=3695K</td></tr> <tr> <td></td><td>20K NTC B=4262K</td></tr> <tr> <td></td><td>3K NTC B=3975K</td></tr> <tr> <td></td><td>PT1000</td></tr> <tr> <td></td><td>NI1000 32F</td></tr> <tr> <td></td><td>NI1000 70F</td></tr> </tbody> </table> upgraded built-in Web page with all new temperature sensors; new Modbus function 0x17 Read/Write Multiple registers; new Modbus function 0x2B to read the VENDOR_NAME,MODEL_NAME, FW_VERSION, HOMEPAGE; supporting Modbus address 0xFF for communication with gateway (IP module). <p>Improvements:</p> <ul style="list-style-type: none"> improved filtering on UI; Device Name (Object Name) in BACnet is saved in EEPROM memory. <p>Fixed bugs:</p> <ul style="list-style-type: none"> fixed one record in sensor 30k6A1 table –resistance 60713 to 80713 (5°C); “Send I Am” message is not send if BACnet is turned off; default settings resets using dip switches resets counters. 	Celsius	Fahrenheit	NI1000 21C	10K Type2 NTC B=3975K	NI1000 LG	10K Type3 NTC B=3695K		20K NTC B=4262K		3K NTC B=3975K		PT1000		NI1000 32F		NI1000 70F
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The list below contains modifications and new features since the release of software bundle version 6.1.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 6.2 Release date 30 Jul 2018	<p>New functionalities:</p> <ul style="list-style-type: none"> support new HW V3.2 with UL certification by iSMA Configurator. <p>Fixed bugs:</p> <ul style="list-style-type: none"> fixed Modbus TCP/IP socket timeout issue.

The list below contains modifications and new features since the release of software bundle version 6.0.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 6.1 Release date 12 Apr 2018	<p>Fixed bugs:</p> <ul style="list-style-type: none"> fixed reset of live time value; fixed inputs/outputs Watchdog issue related to live time value.

The list below contains modifications and new features since the release of software bundle version 5.5.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 6.0 Release date 7 Dec 2017	New functionalities: <ul style="list-style-type: none">firmware Version 6.0 released with BACnet certification;added possibility to upgrade devices firmware via BACnet. Fixed bugs: <ul style="list-style-type: none">fixed out of service flags in AO, BO and TO in BACnet;fixed overridden flags in AO, BO and TO in BACnet;fixed bug with number of counters for Binary Input object (now variable is 32 bit);changed AO-1, BO-1, TO-1 HAND_STATUS Access to read only in BACnet.

The list below contains modifications and new features since the release of software bundle version 5.0.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 5.5 Release date 1 Jun 2017	New functionalities: <ul style="list-style-type: none">added new proprietary properties in BACnet Device object:<ul style="list-style-type: none">property 3020 HW_VERSION;property 3030 VERSION_TYPE;property 3084 BAUD_RATE;property 3085 USER_BAUD_RATE;property 3101 IP_ADDRESS;property 3102 SUBNET_MASK;property 3103 DEFAULT_GATEWAY;property 3104 HTTP_PORT;property 3105 BACNET_UDP_PORT;added new Modbus registers for:<ul style="list-style-type: none">register 30130 HW_VERSION;register 30131 MAC_ADDRESS;added new element on the web page:<ul style="list-style-type: none">hardware version –main page, section Basic Information. Improvements: <ul style="list-style-type: none">improved Ethernet communication in Modbus gateway mode;improved algorithm of resetting Ethernet switch when error is detected (improved Ethernet stability). Fixed bugs: <ul style="list-style-type: none">fixed built-in web page (now BACnet COV Increment always in format with one decimal place).

The list below contains modifications and new features since the release of software bundle version 4.4.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 5.0 Release date 4 Jan 2017	Improvements: <ul style="list-style-type: none">• improved BACnet COV Increment can now have values with resolution 0.1;• added power Led flashing after IO watchdog triggered;• added immediately detecting sensors short circuit and disconnection regardless of filter settings on universal inputs.

The list below contains modifications and new features since the release of software bundle version 4.3.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 4.4 Release date 28 Sep 2016	Improvements: <ul style="list-style-type: none">• Modbus TCP exception codes improved;• UI filter improved (better signal stability at a lower filter time constant). Fixed bugs: <ul style="list-style-type: none">• fixed built-in web page (BACnet COV Increment "0" value cannot be set);• fixed physical output state when priority table is null in BACnet Binary/Analog Output object (when priority table is null physical output is set to relinquish default value).

The list below contains modifications and new features since the release of software bundle version 4.1.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 4.3 Release date 30 Mar 2016	Improvements: <ul style="list-style-type: none">• improved algorithm of handling Modbus TCP connections and data (when incorrect data arrives device will close the connection);• improved Ethernet stability when device receive invalid Ethernet frame.

The list below contains modifications and new features since the release of software bundle version 2.1.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 4.1 Release date 18 Jan 2016	<p>New functionalities:</p> <ul style="list-style-type: none"> • new BACnet objects for configuration, detail in manual; • added BACnet device property (Active COV Subscriptions); • added BACnet objects for additional mode in 4I40. <p>Improvements:</p> <ul style="list-style-type: none"> • improved on the built-in web page; • improved configuration of flag Out Of Service and Override in Digital Outputs and Analog Outputs; • added COV Increment for Universal Inputs and Analog Outputs • BACnet Out Of Service for UI and BI with the possibility of overwriting present value; • BACnet Analog Output and Binary Output priority table reset after watchdog was triggered; • improved Resistance measurement on Universal Input for increased accuracy of PT1000 and NI1000; • improved UI measurement for 16-bit resolution; • reading new IP address after reload settings; • added flag Send Modbus Error; • improved socket service interface for Modbus protocol; • added PHY reset when error was detected (improved Ethernet stability); • protocol Type has moved to IP Configuration on web page; • disable BACnet protocol when Dipswitch are set to Modbus. <p>Fixed bugs:</p> <ul style="list-style-type: none"> • resolved problem with BACnet hanging after device reset • fixed temperature sensor configuration for universal input • fixed command Write Single Register in Modbus TCP.

The list below contains modifications and new features since the release of software bundle version 1.6.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 2.1 Release date 28 Aug 2015	<p>Improvements:</p> <ul style="list-style-type: none"> • improved edit user baud rate on the built-in web page; • resolved problem with Analog Outputs (reset PWM value in 0-10V mode); • improvement of error codes in Modbus TCP; • additional login 'platform' to the built-in web page.

The list below contains modifications and new features since the release of software bundle version 1.3.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 1.6 Release date 6 Aug 2015	<p>Improvements:</p> <ul style="list-style-type: none"> • resolved problem with IO watchdog; • improved saving to EEPROM (counters after restore default settings was not saved).

The list below contains modifications and new features since the release of software bundle version 1.0.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 1.3 Release date 13 Jul 2015	Improvements: <ul style="list-style-type: none">• improved resistance input for universal input;• improved sequence of outputs in digital output;• resolved problem with PWM.

NAME	DESCRIPTION
iSMA-B-MIX-IP Ver. 1.0 Release date 1 Jul 2015	First release.