

A7s Program Update Notes

V4.6.0.0

1. Added driver chips

- 1) MBI series: MBI5353B;
- 2) SM series: SM16259;
- 3) ICN series: ICN2055, ICN2065;

2. Added decoding chips

ICN2018/2019 chips

3. Updated functions

- 1) Fixed the column scanning mirror problem for all the supported decoding chips (working with NovaLCT 5.2);
- 2) Supports random order scanning (working with NovaLCT 5.2);
- 3) Supports data row extracting for special modules (working with NovaLCT 5.2);
- 4) Allows the serial light strips with any extracting channels to light up the screen (working with NovaLCT 5.2);
- 5) Added bit error detection function (working with NovaLCT 5.2);
- 6) Supports individual Gamma adjustment for RGB (working with NovaLCT 5.2);
- 7) Supports cabinet LCD backlight control and run time resetting functions;
- 8) Supports 1/64 scan display;
- 9) The backup receiving card supports module flash, smart module and 5-pin LCD module functions (For hardware design, see B3);
- 10) Added status monitoring of main and backup receiving cards (working with NovaLCT 5.2);
- 11) Supports calibration threshold adjustment (working with NovaLCT 5.2);
- 12) Supports extension of 128 serial data groups;
- 13) Added calibration acceleration function (supported by customized software).

4. Fixed main line bugs

- 1) The topologies of Ethernet port 5 and subsequent ports are wrong in

the redundancy mode.

- 2) The screen has flashing pixels when some parameters are adjusted to certain values in the static mode of MBI5153 series chips.
- 3) In the serial mode and each receiving card driving a cabinet of the same width, when the data group mode is changed among 16-group/32-group/64-group, the screen becomes blurred.
- 4) The screen has brighter lines, brighter pixels and green background under certain circumstances after the screen is powered on.
- 5) Fixed the problem that the screen blurs when users handle faulty pixels after the SUM2033 series chips are powered off and on.

5. Notes

- 1) When updating the Axs programs from V4.3.x.x to V4.5.0.0 or later, please update the MCU program independently at first and then update all the programs. If the programs are already V4.5.0.0 or later, update the programs directly.
- 2) When updating the Axs programs from V4.3.x.x to V4.5.0.0 or later, if the original configuration file is for the irregular cabinets, please select the Big Control Mode option in NovaLCT.

Earlier Version

V4.5.0.0

1. Supported driver chips

MBI series: MBI502x, MBI503x, MBI5041(B), MBI5042(B), MBI5043, MBI505x, MBI5124 (not including MBI5124DPWM), MBI5125 (not including MBI5125DPWM), MBI515x, MBI5252, MBI5353;
SUM series: SUM20167, SUM2017(T), SUM2028, SUM203x, SUM213x
MY series: MY9266, MY9269, MY9366, MY9862, MY9868;
ICN series: ICN2027, ICN2028, ICN2038, ICN2038S, ICN2053;
SM series: SM16158, SM16159, SM16207, SM16227, SM16237;
Others: TLC5958, TLC59581, SCL8060, common chips;

2. Supported decoding chips

- 1) 74HC138 chip;
- 2) 74HC595 chip;

- 3) RT5953 and RT5958 chips;
- 4) SM5266 chip;
- 5) ICN2012/2013 chips;

3. Supported functions

- 1) Maximum loading capacity of PWM IC: 512×256 pixels;
Maximum loading capacity of common IC: 384×256 pixels;
- 2) Supports up to 32 groups of parallel data or 64 groups of serial data;
- 3) Allows to package the FPGA and MCU programs together for update;
- 4) Supports module flash function (supported by main card only);
- 5) Supports smart module (customized function);
- 6) Supports monitoring function;
- 7) Supports setting of pre-stored image;
- 8) Supports program readback;
- 9) Supports image rotation in 90° increments (calibration not supported after rotation);
- 10) Supports Mapping function;
- 11) Supports 5-pin LCD module (customizable to 9-pin);
- 12) Supports dual-card backup;
- 13) Supports power supply backup and operating status detection of the supplies;
- 14) Supports auto readback of module calibration data;
- 15) Supports parameter backup and readback;
- 16) Supports dual backup and readback of calibration data.