**Firmware Program Release Notes**

# Basic Information

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| Program Type (General or Customized) | General |
| Applicable Receiving Card | A8s |

# Chip List

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| --- | --- | --- | --- |
| Program Package | Driver IC | Decoding Chip | Note |
| DATA\_A8s\_V4.7.2.0 | *MBI series: MBI5041(B), MBI5042(B), MBI5043, MBI515x, MBI5252, MBI5353;*  *SUM series: SUM2028, SUM203x, SUM213x;*  *MY series: MY9266, MY9269, MY9366;*  *ICN series: ICN2053;*  *SM series: SM16158, SM16159;*  *Others: TLC5958, TLC59581, SCL8060;* | *74HC138,*  *74HC595,*  *RT5953, RT5958,*  *SM5266, ICN2013,*  *ICN2018/2019* |  |
| DATA\_A8s\_V4.7.2.3 | *MBI series: MBI5251;* | *74HC138,*  *74HC595,*  *RT5953, RT5958,*  *SM5266, ICN2013,*  *ICN2018/2019* |  |

# Features

| Supported Features | Note |
| --- | --- |
| Maximum load capacity: 384×512 pixels (PWM IC); 384×384 (Common IC/LS99xx) | For module design, it is necessary to use horizontal conventional layout. Irregular layouts, such as column scanning, folding, or skipping pixels, may affect the maximum load. |
| Up to 1/64 scan |  |
| Up to 32 groups of parallel data; 64 groups of serial data (expandable to 128 groups of serial data) |  |
| Image booster (22bit+, precise grayscale) | NovaLCT5.4.0 and later |
| Color management |  |
| Pixel level brightness and chroma calibration |  |
| Quick seam correction |  |
| Low latency |  |
| 3D function | The load capacity will be halved when this function is enabled. |
| Individual gamma adjustment for RGB |  |
| 90° image rotation |  |
| Free image rotation |  |
| HDR function | The load capacity will be reduced by half for 10bit / 12bit video sources |
| Display of 3-color 1-point serial input and 3-color 16-point serial input |  |
| Smart module | Dedicated firmware required |
| Automatic module calibration |  |
| Stable uploading of calibration coefficients | Calibration acceleration supported |
| Quick uploading of calibration coefficients |  |
| Module Flash management |  |
| One click to apply calibration coefficients in module Flash |  |
| Mapping1.1 function |  |
| Settings of a stored image in the receiving card |  |
| Temperature & voltage monitoring |  |
| Cabinet LCD | Only 5-Pin LCD is supported |
| Bite error detection |  |
| Status detection of dual power supplies |  |
| Firmware program readback |  |
| Configuration parameter readback |  |
| Dual card backup and status monitoring |  |
| Loop backup |  |
| Dual backup of configuration parameters |  |
| Dual program backup |  |
| Dual backup of calibration coefficients |  |
| 10bit/12bit input source | The load capacity will be halved. |

# V4.7.2.0 Updates

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| New Features |
| * Supports the MBI5251 custom chip; Must work with NovaLCT V5.4.7. |
| Improvements |
| * None |
| Bug Fixes |
| * None |

# Others

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| 1. When upgrading the Axs program from V4.3.x.x to V4.5.0.0 or later, the MCU program must first be upgraded separately before proceeding with the full program update. If the program is already at V4.5.0.0 or later, you can upgrade it directly as usual.  2. During the upgrade from V4.3.x.x to V4.5.0.0 or later, if the existing configuration file is set for a non-standard cabinet, please ensure that the "Large Load Capacity" option is selected. |