**Firmware Program Release Notes**

# Basic Information

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

# Chip List

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| --- | --- | --- | --- |
| Program Package | Driver IC | Decoding Chip | Note |
| DATA\_A8s-N\_V4.8.2.0 | *MBI series: MBI502x, MBI503x, MBI5041(B), MBI5042(B), MBI5043, MBI505x, MBI5124 (excluding MBI5124DPWM), MBI5125 (excluding MBI5125DPWM), MBI515x, MBI5252, MBI5353, MBI5353B;**SUM series: SUM20167, SUM2017(T), SUM2028, SUM203x, SUM213x;**MY series: MY9266, MY9269, MY9366, MY9862, MY9868;**ICN series: ICN2027, ICN2028, ICN2038, ICN2038S, ICN2053, ICN2055, ICN2065, ICN2046;**SM series: SM16158, SM16159, SM16207, SM16227, SM16237, SM16259, SM16359;**Others: TLC5958, TLC59581, SCL8060, common ICs;* | *74HC138;**74HC595;**RT5953, RT5958;**SM5266; ICN2013;**ICN2018/2019;* |  |
| DATA\_A8s-N\_V4.8.2.3 | *MBI series: MBI5264;* | *74HC138;**74HC595;**RT5953, RT5958;**SM5266; ICN2013;**ICN2018/2019;* |  |

# Features

| Supported Features | Note |
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| 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 |  |
| Adjustable EMC |  |
| 10bit/12bit input source | The load capacity will be halved. |
| Seam correction by camera | Program version V4.8.1.0 or later. |
| Frame rate adaptive 2.5 | Only available for the custom version of V4.8.2.3. |

# V4.8.2.0 Updates

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| New Features |
| * Supports the MBI5264 custom chip; Must work with NovaLCT V5.4.7.
* Supports frame rate adaptive 2.5; Must work with NovaLCT V5.4.7.
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| Improvements |
| * None
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| Bug Fixes |
| * None
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# Others

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| 1. Must work with LCT V5.4.7 |