

Firmware Program Release Notes

Overview

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| Program Type (General or Customized) | General |
| Applicable Receiving Card | A5sPlus |
| PCB Version | S6C_A0/A4/A6 |

Chip List

| Program Package | Driver IC | Decoding Chip | Note |
|-----------------------|---|--|------|
| DATA_A5sPlus_V4.9.7.0 | <p><i>MBI series: MBI502x, MBI503x, MBI5041(B), MBI5042(B), MBI5043, MBI505x, MBI5124 (excluding MBI5124DPWM), MBI5125(excluding MBI5125DPWM), MBI515x, MBI5252, MBI5353, MBI5353B</i></p> <p><i>SUM series: SUM20167, SUM2017(T), SUM2028, SUM203x, SUM213x</i></p> <p><i>MY series: MY9266, MY9269, MY9366, MY9862, MY9868</i></p> <p><i>ICN series: CN2027, ICN2028, ICN2038S, ICN2055, ICN2065, IC2055s, ICN1069, ICN1065s</i></p> <p><i>SM series: SM16158, SM16159, SM16207, SM16227, SM16237, SM16259</i></p> <p><i>Others: TLC5958, TLC59581, SC8060, common chips</i></p> | <p>74HC138, 74HC595, RT5953, RT5958, SM5266, ICN2013, ICN2018, ICN2019</p> | |

Features

| Supported Features | Note |
|---|---|
| Max load capacity: 512×384 pixels (PWM, Shixin PWM IC); 384×384 pixels (common, Shixin common IC) | For the module design, irregular layouts, such as column scanning, folding, or skipping pixels, can impact the maximum load, typically causing variations of below 15%. Please contact NovaStar support team if you have any questions. |
| Up to 1/64 scan | |
| Up to 32 groups of parallel data. | Refer to logical load capacity. |

| Supported Features | Note |
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| 64 groups of serial data (expandable to 128 groups of serial data) | Support 8, 16, or 32 groups of parallel data. Support 16, 32, or 64 groups of serial data. Support dual clock extension by default. |
| Color management | |
| 18bit+ | |
| Pixel level brightness and chroma calibration | |
| Quick seam correction | Support displaying test pattern when there is no signal source. |
| Low latency | Common chips do not support low latency, and LS99XX series chips do not support low latency either. DCLK continuous chips need to be customized to support low latency. |
| 3D | Load capacity reduced by half. |
| Individual gamma adjustment for RGB | |
| 90° image rotation | |
| Display of 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 | |
| Settings of a stored image in the receiving card | |
| Temperature & voltage monitoring | |
| Cabinet LCD | Support for a 5-Pin LCD |
| Bit error detection | No checking for errors when the Ethernet cable is unplugged. |
| Status detection of dual power supplies | |
| Firmware program readback | |
| Configuration parameter readback | |
| Dual card backup and status monitoring | Supports seamless switching (Note: The 1065/1063/LS99 series ICs do not support seamless |

| Supported Features | Note |
|---|---|
| | switching) |
| Loop backup | Supports seamless switching (Note: The 1065/1063/LS99 series ICs do not support seamless switching) |
| Dual backup of configuration parameters | |
| Dual program backup | |
| No rectangle restriction | Work with specific sending cards. |
| Added adjustable EMC. | Require working with NovaLCT 5.4.8 or later. |
| 10bit/12bit input source | Does not support enabling 10/12-bit when working with COEX card-based controllers. Other series can support this but with half the load capacity. |

Others

1. Removed the brightness adjustment feature in grayscale preferred mode.
2. Fixed the brightness reduction issue for ICN2053 when exceeding 13-bit (after the fix, brightness is enhanced to meet client application needs).
3. Added support for active-low gamma on DP3264, DP3265, and SM16389SF.
4. ICN1063 (ICN2263) and ICN2152 do not support the deal pixel removal and require customization for support. (ICN2152: A5sPlus_V4.8.2.38; ICN1063 (ICN2263): A5sPlus_V4.8.20.38)
5. ICN1063 (ICN2263) only supports active-low gamma and must be used with NovaLCT version 5.6.0 or later.
6. SM16389SF, SM16609, and SM16169SH (SM16380SH) do not support extended attribute special modes (photo optimization) and require a custom program for support.
7. Version V4.9.7.7 uses the LS E0 version of the kernel.
8. Added support for using image files for packaging.
9. Does not support the display of 3-color 1-point serial input and requires a custom program for support.
10. Supports program swapping for dual-card backup in both new and old setups.
11. For dual-card backup, the primary and backup programs must be identical during application. Discrepancies may cause display issues.

V4.9.7.0 Updates

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| New Features |
| <ul style="list-style-type: none"> • None |
| Improvements |
| <ul style="list-style-type: none"> • Enhanced interference resistance capability. |
| Bug Fixes |
| <ul style="list-style-type: none"> • Fixes known issues. |