

EXTEND YOUR LED VALUE



MBI Product Roadmap-2020H1

2020/2

HAWKEYE SOLUTION PLATFORMSingle Color Control:
16-channel

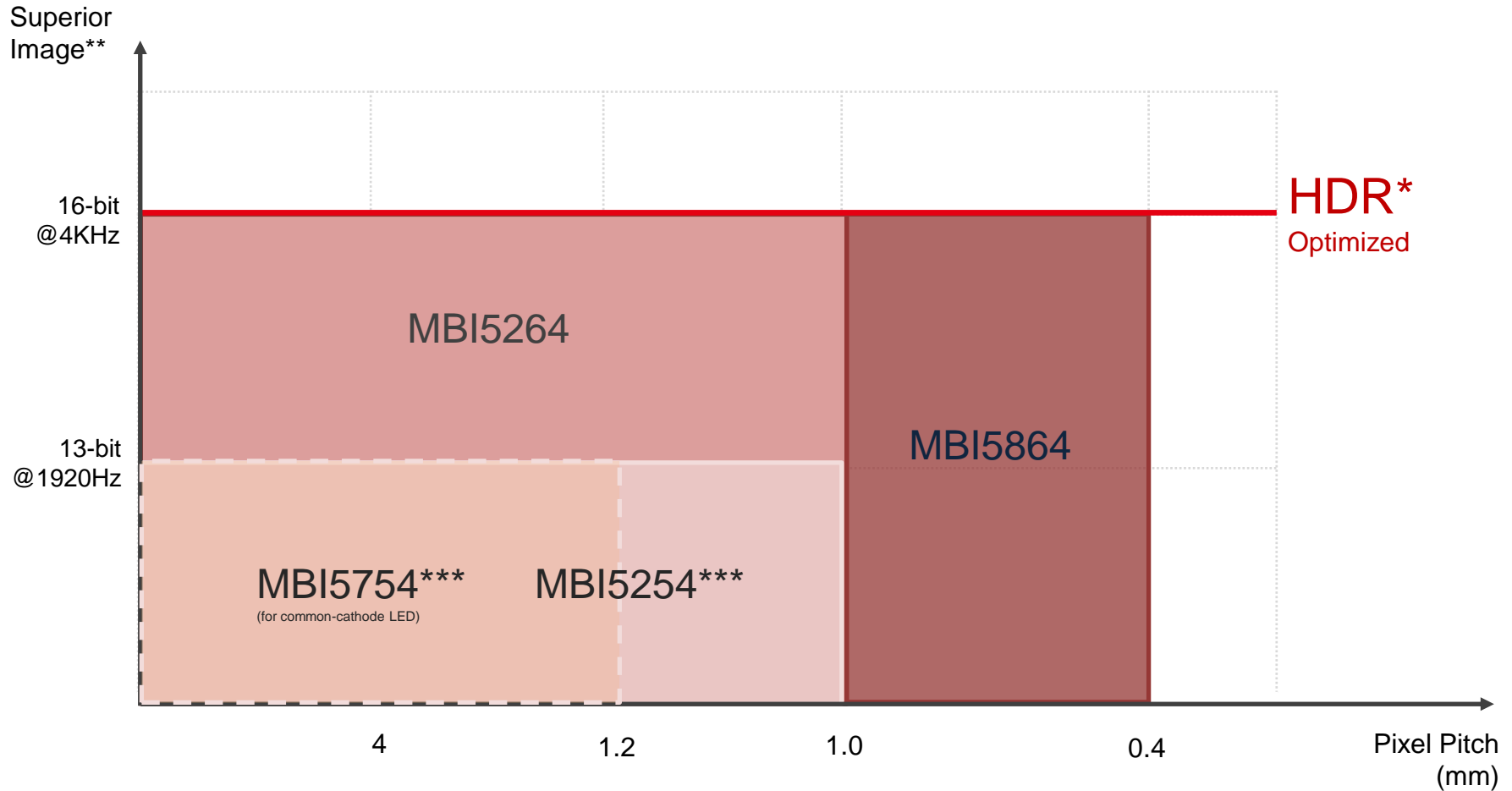
RGB Control

MBI50512mA – 45mA,
high precision
1:8 Time-multiplexing S-PWM**MBI5253**0.5mA -20mA , high precision
1:32 Time-multiplexing S-PWM
Solve high contrast interference**MBI5254**0.5mA -20mA , high precision
1:64 Time-multiplexing S-PWM
Solve high contrast interference**MBI5264**0.5mA -20mA , high precision
1:64 Time-multiplexing S-PWM
PWM boosting feature
Solve high contrast interference**MBI5251**2mA – 45mA,
high precision
1:8 Time-multiplexing S-PWM
Power saving**MBI5252/MBI5153**0.5mA -20mA , high precision
1:16 & 1:32 Time-multiplexing S-PWM**MBI5754****Common cathode** LED driver
1mA – 18mA, high precision
1:64 Time-multiplexing S-PWM
Solve high contrast interference**MBI5353**48 output channels,
1:32 Time-multiplexing
S-PWM**MBI5359**48 output channels
32 MOSFETs embedded
1:32 Time-multiplexing
S-PWM
PWM boosting Feature**MBI5759****Common cathode** LED driver
48 output channels
32 MOSFETs embedded
1:32 Time-multiplexing
S-PWM**MBI5354**48 output channels,
1:64 Time-multiplexing
S-PWM**MBI5864**48 output channels
16 MOSFETs embedded
1:64 Time-multiplexing
Scan sharing control
Target to miniLED/COB**MBI5850**12 output channels
4 MOSFETs embedded
1:32 Time-multiplexing
Scan sharing control
PWM boosting Feature**Power Switch****MBI5926**Max current 3A/channel
SOT23-6 package**MBI5927**Max current 3A/channel
SOT23-6 package
Eliminate high contrast
interference,**MBI5947**4 power switch + Decoder
Eliminate high contrast
interference**MBI5986**Max current 2A/channel
8 power PMOS switch
Serial data input**MBI5981**Max current 2.5A/channel
8 power **NMOS** switch
Serial data input**Basic****MBI5025**

High precision current Low Knee Voltage

MBI5035**MBI5039**Error detection
Current gain**MBI5037**Smart power saving
Error detection**MBI5038**Smart power saving
Error detection
Current gain**Multi-Function****S-PWM****MBI5043**16-bit SPWM
De-ghosting**MBI5040**16-bit S-PWM
Digital dot- correction

LED Driver IC Recommendation for Maximum 64-Scan Time-multiplexing LED Display



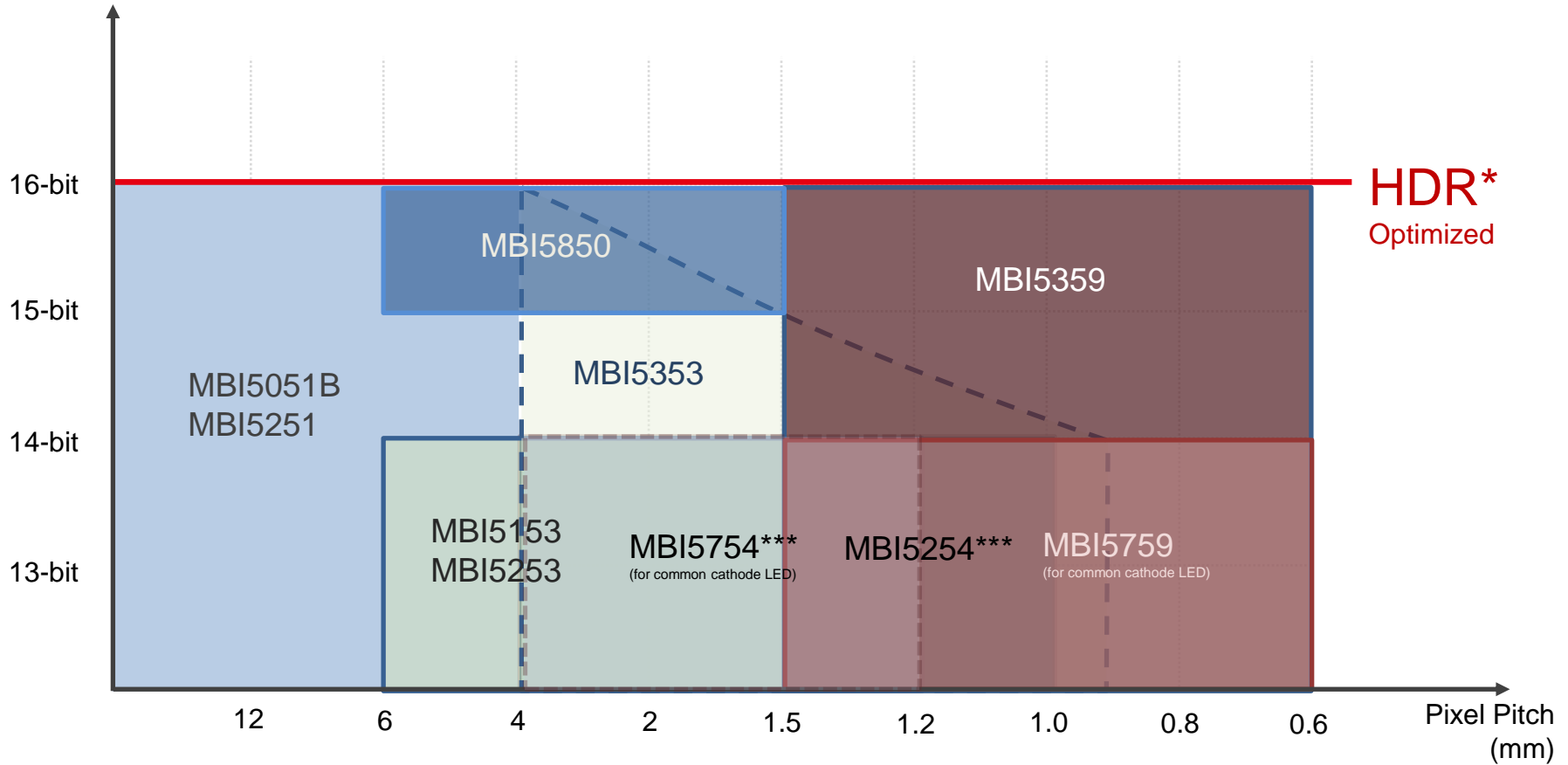
*HDR-Optimized: 16-bit grayscale @ 4KHz refresh rate at 32-scan design or above.

**Superior Image: Solving the 7 common problems for fine pitch LED displays.

***MBI5254 / MBI5754 can achieve 14-bit grayscale @ 4KHz refresh rate of the 32-scan design.

LED Driver IC Recommendation for 1~32-Scan Time-multiplexing LED Display

Superior Image**
@4KHz Refresh Rate

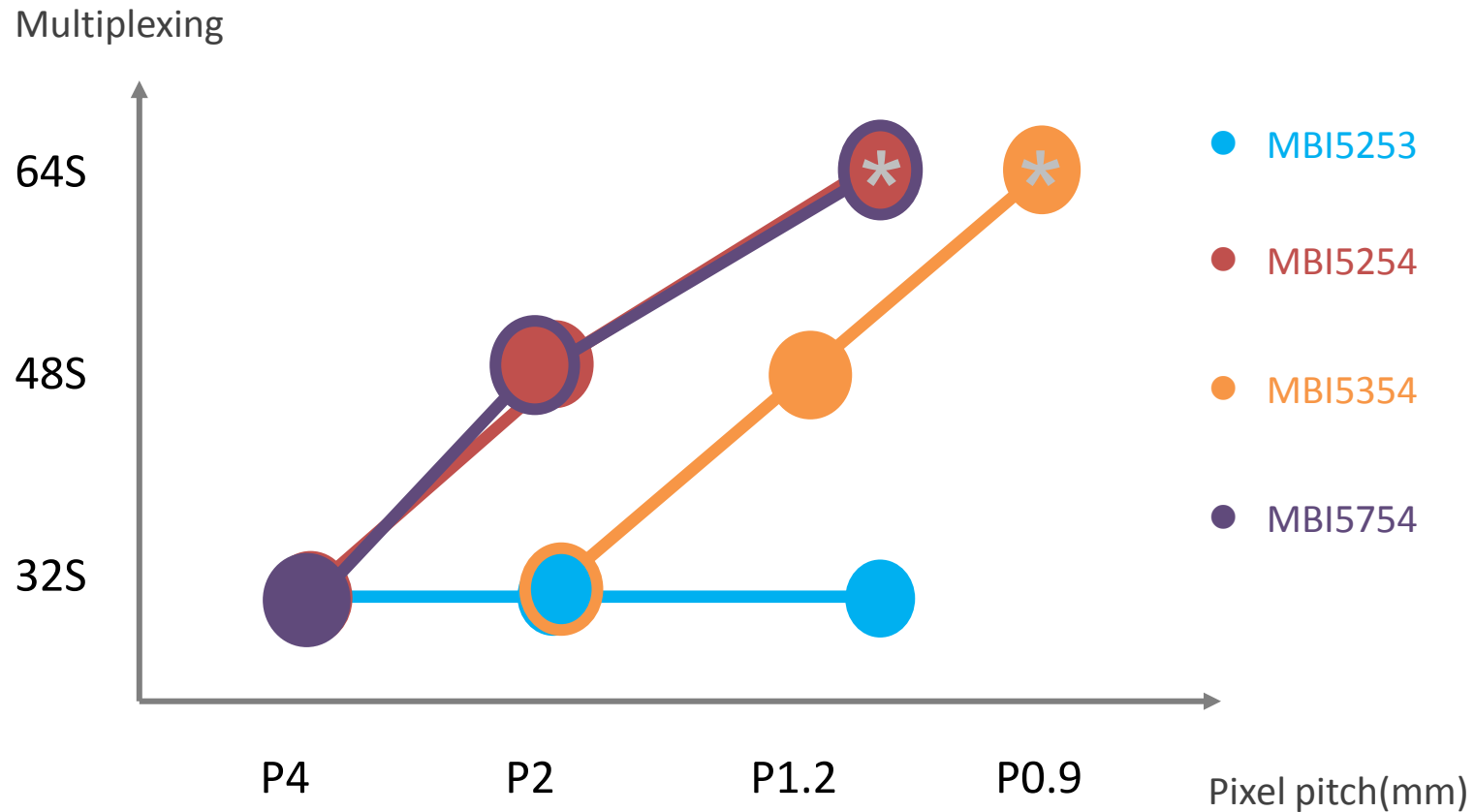


*HDR-Optimized: 16-bit grayscale @ 4KHz refresh rate at 32-scan design or above.

**Superior Image: Solving the 7 common problems for fine pitch LED displays.

***MBI5254 / MBI5754 can support up to 64-scan design.

Multiplexing vs. Pixel pitch



* 13 bit Gray scale / 1920Hz Refresh rate



Thank You!

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