

**EL512.256-H2/H3 FRB as a replacement for EL6648MS and EL6648MSS**  
**Applications 003-0007-00A**

Differences	EL512.256-H2/H3 FRB	EL6648MS	EL6648MSS
Mechanical size	260 x 140 mm Same mounting hole positions	260 x 145 mm Same mounting hole positions	260 x 145 mm Same mounting hole positions
Thickness	17 mm	18 mm	35 mm
Display weight	400 g	710 g	710 g
DC/DC-converter	Built-in	Separate	Mounted
Connector & pin out	One 16 pin connector and optional dimming and power connectors (see operations manual )	Several connectors (see operations manual )	One 16 pin connector (see operations manual )
Display color	Amber-more yellow	Amber-more orange	Amber-more orange
Operating temperature range	H2 0...+55°C H3 -25...+65°C	0...+55°C	0...+55°C
Operating survival temperature range	H2 -20...+55°C H3 -40...+65°C	0...+70°C	0...+70°C
Timing	Same interface but timing differences (see operations manual )	Same interface but timing differences (see operations manual )	Same interface but timing differences (see operations manual )
Power input voltages	+5 Vdc logic and +11...+30 Vdc for the converter	+11.4...12.6 Vdc for the converter no separate +5 Vdc	+10.8...+16.5 Vdc for the converter no separate +5 Vdc
Maximum power consumption	12 W	18 W	16 W

The above table has only main differences. See respective manuals for the full specifications.

**Critical considerations for design migration:**

- Timing differences
- Mechanical mounting considerations
- Connector and pinouts differences
- Separate +5 Vdc for the logic