



Broadcast Audio  
Custom Manufacture  
Design and Consultancy

IPPM  
V4 firmware updates

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#### **Version 4 firmware changes**

- (1) Pin 9 of J2 lamp driver output. This pin is now active when the card is in AB mode. Pin 3 is still active when the card is in MS mode. The extra line was added to make it easier to implement meter switching where the Meter is normally used in MS mode as there is now an indicator for each mode.
- (2) Jumper on LK9 now determines whether the card powers up in either AB or MS mode.
- (3) With LK7 fitted, momentary buttons can be interfaced to the card. The S+20 function is however changed to only activate when the card is in MS mode, and is now always momentary. If LK7 is not fitted, latching switches can be interfaced to the card. This mode is unchanged.
- (4) The overload LED indication now triggers on transients of PPM6 longer than 1mS. Earlier firmware reacted to faster transients, which in practice have turned out to be too fast.