

Known Differences Between AVME9670A/AVME9675A and Retired AVME9670/AVME9675

The AVME9670A and AVME9675A are designed to be functionally identical to the original AVME9670 and AVME9675. Primarily, the reason for the rev of the original board was due to the primary FPGA reaching its EOL. In response, the original EPF10K10QC208-4 FPGA on the AVME967x has been replaced with a XC7A35T-1FGG484I FPGA, and requisite accompanying components. The number of flavors of the board has also been reduced to 4, since all of the new components are rated for extended temperatures. The change in board offerings can be seen below. Other than these two major changes, the new board both fits and functions identically to the original.

AVME9670/AVME9675

Variations

AVME9670

VME64x 6U carrier, user-defined addressing.
Holds four IP modules.

AVME9670E

Same as AVME9670 plus extended temperature range.

AVME9670-2

Same as AVME9670 except it holds two IP modules (no P0 connector).

AVME9670-2E

Same as AVME9670-2 plus extended temperature range.

AVME9675-2

Same as AVME9675-4 except it holds two IP modules (no P0 connector).

AVME9675-2E

Same as AVME9675-2 plus extended temperature range.

AVME9675-4

Same as AVME9670 plus geographical addressing.
Holds four IP modules.

AVME9675-4E

Same as AVME9675-4

AVME9670A/AVME9675A

Variations

AVME9670A-4E-LF

VME64x 6U carrier, user-defined addressing.
Holds four IP modules.

AVME9670A-2E-LF

Same as AVME9670A-4E-LF except it holds two IP modules (no P0 connector).

AVME9675A-4E-LF

Same as AVME9670A-4E-LF plus geographical addressing. Holds four IP modules.

AVME9675A-2E-LF

Same as AVME9675A-4E-LF except it holds two IP modules (no P0 connector).

AVME9670/AVME9675

Power Draw

233 mA Current Draw @ 5V

MTBF

474,104 hrs. at 25°C, MIL-HDBK-217F, notice 2

AVME9670A/AVME9675A

Power Draw

290 mA Current Draw @ 5V

MTBF

922,858 hrs. at 25°C, MIL-HDBK-217F, notice 2.
627,380 hrs. at 40°C, MIL-HDBK-217F, notice 2.