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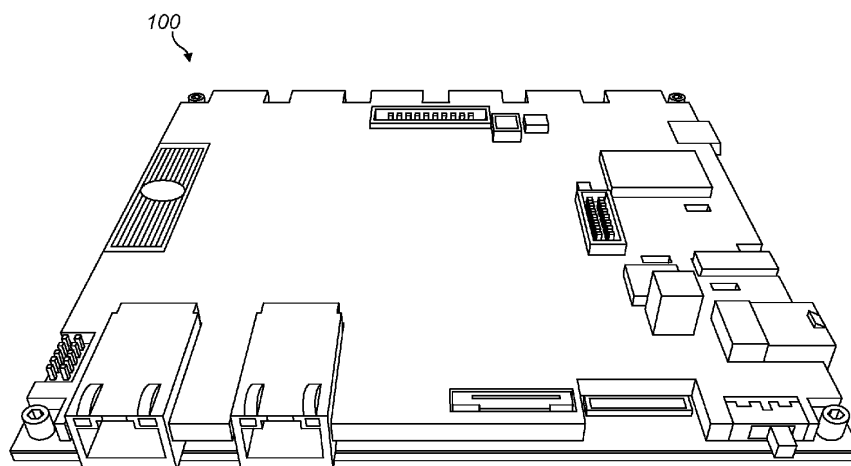


FIG. 1

(57) Abstract: An apparatus comprises an electronic component comprising at least one circuit, a shielding material, coupled to the electronic component, forming a protective shield over or partially surrounding said at least one circuit. The protective shield comprises one or more layers formed of a composite material. At least one layer of said is disposed on the electronic component to form the protective shield protecting the electronic component from radiation. The composite material comprises a polymer composite comprising an arrangement of carbon material to increase the emissivity of the composite material, and/or a thermal conductive coating disposed over said at least one layer facing toward the electronic component and/or a thermal reflective coating disposed over said at least one layer facing away from the electronic component.

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