

LIQUID FLOW THROUGH OPENVPX CHASSIS

VITA 48.4 DEVELOPMENT & DEMO PLATFORM

DESCRIPTION

Elma Electronic's newest OpenVPX development platform is designed to accommodate boards requiring VITA 48.4 LFT (Liquid Flow-Through) cooling. The standard establishes the mechanical design interface, outline and mounting requirements for a 6U VPX liquid-flow-through cooled plug-in module within associated sub-racks. The connector layout remains common with VITA 46. The plug-in module uses liquid flowing through an integral heatsink of the module for cooling the electronic components and circuit boards. The quick disconnect coupling assemblies allow fluidic coupling to the chassis manifold.



Intended for proof of concept testing and development tasks, this self-contained VITA 48.4 LFT platform is designed to accept up to five 6U VPX plug-in modules on a 1" pitch, and either a built-in power supply or a plug-in VITA 62 power module. The liquid-to-air heat exchanger provides the required fluid for cooling, and a flow indicator shows whether the fluid is circulating. The system can be adapted to any slot count and module pitch.

FEATURES

- › Accepts up to 6 OpenVPX modules
- › Built-in plug-in VITA 62 power module option
- › Built-in heat exchanger
- › Flow indicator shows fluid is circulating

SPECIFICATIONS**Liquid to Air Heat Exchanger Specifications:**

Cooling capacity	500 watts
Flow rate	2.3 l/m @ 4 bar
Coolant	Water or water/glycol
Operational temperature range	5°C to 40°C
Storage temperature range	-25°C to 70°C
Humidity range	20% to 80%
Input voltage	230 VAC 50/60Hz

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