ELMA Embedded Computing

AppliPaks
Application Development Packs

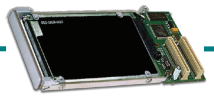
OVERVIEW

ELMA Your Solution Partner

Elma's AppliPak (Application Development Pack) is a fully integrated embedded computing solution combining a single board computer based on open architectures (VME, VPX, cPCI, etc.) with your choice of state of the art storage and/or I/O mezzanine cards, operating systems support and device drivers.

Emerson MVME6100

AppliPak =

\+  + Operating system and device driver integration

Elma 9262 storage mezzaine

Staying on schedule is more important now than ever. For over 20 years, Elma's AppliPaks have addressed critical board level integration issues where a tech refresh or an entirely new board set for a custom or existing platform is needed.

AppliPaks range in complexity from off-the-shelf systems with simple operating system and device driver load to fully ruggedized assemblies with custom OS and driver integration.

Features:

- A Single Board Computer from our wide range of Intel and Freescale CPU options
- Choice of mezzanine based I/O and storage options including serial, audio, video, Ethernet, FPGA I/O, solid state or rotating drives and more
- VxWorks, Linux or Windows OS, and drivers with kernel configuration, optional tools and boot file
- Rear transition module (RTM) or breakout board
- Extended temperature ranges, as well as conformal coating when required
- Assembly level testing, support and life cycle management

Benefits:

- Lower support and procurement costs - each assembly is sold and supported under one model number with Elma as your single point of contact
- Concentrate your efforts on your core business
- Cost containment and risk mitigation - take the guess work out of system design time and costs and rely on Elma for all integration work and scheduling
- Fully tested and installation ready before shipment

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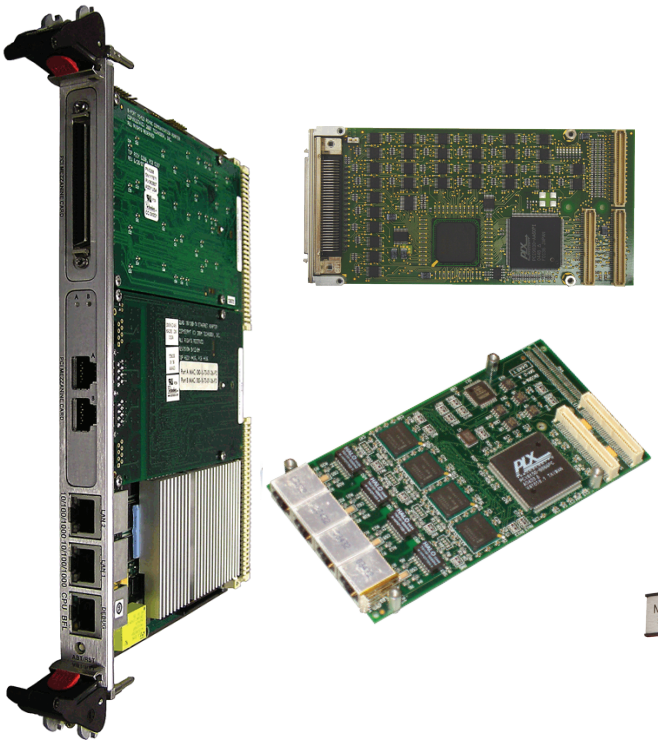
Single-Board Computer

Example AppliPaks

AppliPaks and Rugged AppliPaks are developed using products from our wide range of partners in the embedded computing industry as well as products from our own extensive line of storage and I/O solutions.

Our long term partnership with industry leaders like Emerson, Concurrent, GE, Interface Concept, and Tech Source results in bundled solutions using best in class products to meet most every application need.



Enhanced Serial Communications System

AppliPak consisting of an Emerson MVME6100, SBC, 8 additional mezzanine based 8 RS422 asynchronous serial ports and 2 additional Ethernet ports via mezzanine

Legacy I/O Support

AppliPak consisting of an MVME5110 SBC and a configurable FPGA module supporting VSB bus

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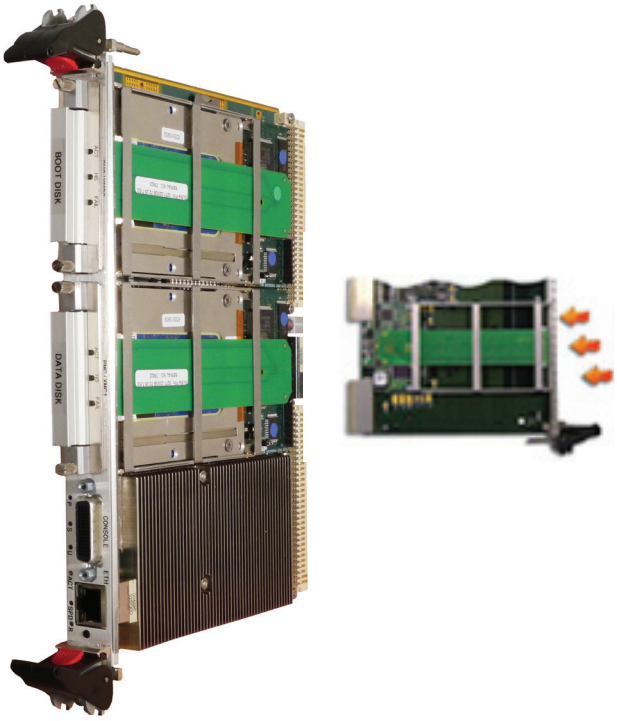
Single-Board Computer

Example AppliPaks

High Capacity Front Removable Storage System

AppliPak consisting of a quad Core i7 SBC plus dual front-removable drives using Elma 9271 ShuttleStor mezzanine cards



Weapons Control System

Rugged and conformal coated AppliPak consisting of a Core 2 Duo SBC, additional mezzanine based storage and Ethernet port capacity plus mating 6U carrier for future I/O expansion as needed

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Single-Board Computer

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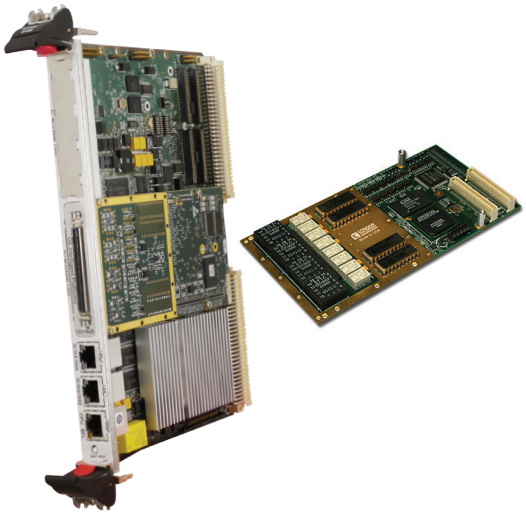
In Flight Avionics System

AppliPak consisting of an MVME6100 SBC and a 1553 mezzanine card



Order Information — AP ☐☐☐☐☐☐☐☐☐☐☐☐-☐☐☐

Use the chart below to create a basic AppliPak configuration, then talk to your sales representative for complete details.

Bus Architecture ☐
- C = CPCI (PICMG)
- V = VITA

SBC ☐
- I = Intel
- O = Other
- P = PowerPC

Board Size ☐
- 3 = 3U
- 6 = 6U

Storage Mezzanine ☐
- F = Fixed
- M = Multiple/Combination
- O = Other
- R = Removable
- S = Secure
- X = No storage mezzanine
- Z = Custom

I/O Mezzanine ☐
- E = Ethernet
- M = Multiple / Combination
- O = Other
- R = Serial
- S = SCSI
- X = No I/O Mezzanine
- Z = Custom

Mezzanine Expansion Card ☐
- N = No
- Y = Yes

RTM ☐
- N = No
- Y = Yes

Operating Systems ☐
- L = Linux
- O = Other
- S = Solaris
- V = VxWorks
- W = Windows
- X = No OS

Conformal Coating ☐
- Y/N

Temperature Requirements ☐
- O = Other
- S = +5C to +40C

Application Software ☐
- N = No
- Y = Yes