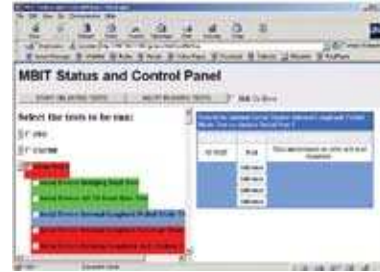


Options and Ordering Information

MBIT GUI Web Based Diagnostics:

When using Motorola SBCs, this Built-In self-Test (BIT) tool provides a Web based control of Motorola's Built-in Test Diagnostic Software. It also provides a GUI based point and click test selection, and color coded test status with an automatic update. It is compatible with Netscape and Internet Explorer.

This option available with VxWorks and Motorola boards only.



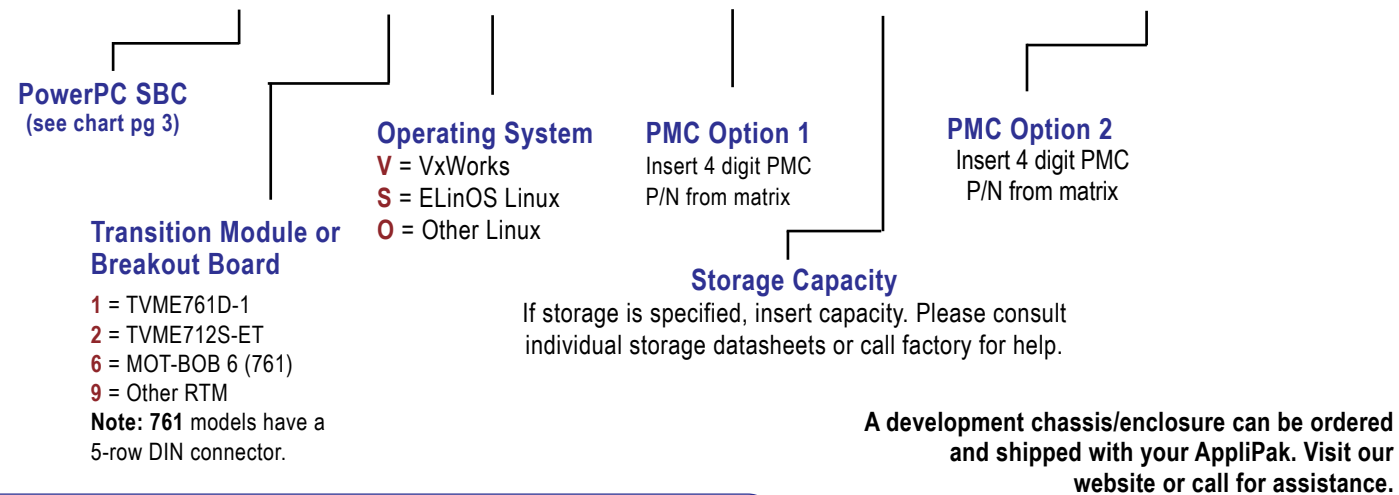
Software Tools

Both Sysgo and Wind River Systems offer several development tools. Please refer to the software section of our website for more details.

Order Information

Please consult your local salesperson for help with an order number. Use the part number system below to build your AppliPak. For locations, please visit our website or call (800) 445-6194 or (215) 956-1200.

SBC# - TM - O - 1PMCnnnn-[xxx]-2PMCnnnn



Example: 6100-0171-8-O-PMC9260-080-2PMC8145
Description: 1.267 GHz MPC7457 with 1 GB SDRAM; MVME761-011 Transition Module; Sysgo ELinOS; PMCDisk with 80 GB hard drive; Ultra SCSI Controller.

ACTTECHNICO www.acttechnico.com
800-445-6194
 760 Veterans Circle, Warminster, PA 18974 •
 Tel (215) 956-1200 • Fax (215) 956-1201

ACT/Technico is certified to conform to ISO 9001:2000 quality standards. All logos and trademarks are the property of the companies included herein.

Middleware

Middleware can be used to present a uniform application interface, allowing communication across different Single Board Computer platforms and independent of the underlying communications media (VMEbus, Ethernet, etc.). It enhances the inter-CPU messaging capability between processors, and provides an environment where designers no longer need to write socket code and manages the process. Messages can be created and sent dynamically. Applications can subscribe to information they need and publish information that they produce.

Ruggedization

The ruggedized versions of the AppliPak provide the same options but add, as required, conformal coating, extended temperature range, and parts lifecycle management. All of our PMC storage modules can be shipped with either standard or extended duty rotating, or solid state flash; most models can be conformally coated. Please consult your local salesperson for complete details.



AppliPak-VME

Complete VMEbus "Boot and Go" Application SBC Solution

Motorola PowerPC

Benefits:

- Provides valuable time and cost savings
- "Boot and Go" Real-Time enabled sourcing model - platform delivered tested and ready to execute user applications
- Achieve a higher level of valuable integration experience while saving time and not paying more
- Fully tested before shipment
- Choice of rotating or solid state flash mass storage devices for application and/or boot
- Available for extended temperature and shock requirements

The ACT/Technico **AppliPak-VME** is an application SBC target package. It includes:

- ◆ Select your SBC from a full range of Freescale™ PowerPC based VMEbus Single Board Computers
- ◆ Rear Transition Module or Breakout Board
- ◆ VxWorks or Sysgo ELinOS Linux configured with the kernel, optional tools and boot file
- ◆ Choice of PMC storage device with rotating or solid state flash media
- ◆ Any necessary drivers
- ◆ Available in extended temperature ranges, as well as with conformal coating

Add any of the following to complete the Kit:

- ◆ Additional PMCs available (SCSI, Ethernet, audio, video, etc.)
- ◆ Built-In Test and GUI Interface for remote testing available for some Motorola boards
- ◆ User defined boot firmware can be included
- ◆ Expansion PMC Carrier for up to 2 sites
- ◆ Select from one of our many chassis or enclosures for a complete, ready to go solution



Solutions for Embedded Computing

SBCs **I/O Solutions** **Design & Documentation** **Software** **Embedded Storage** **Chassis**

(800) 445-6194
www.acttechnico.com



Printed in USA - PPCAPak-PRT-0507

ACT/Technico's VMEbus AppliPak

With the ACT/Technico VMEbus AppliPak, there is only one procurement source, one order to place for all necessary components. It provides an effective simplification of integration issues and a mass storage solution using today's latest rotating or solid state flash technologies.

The AppliPak is available in standard or ruggedized versions. The standard version bundles a PowerPC Single Board Computer from Motorola; ELinOS Linux or VxWorks; boot file and drivers; choice of mass storage devices; and other options such as Transition Modules or Break Out Boards (BoBs), Ethernet, test and GUI based tools for integrated development environment (IDE). The AppliPak is fully tested before shipment.

Single Board Computer:

We are able to offer a choice of Freescale PowerPC based boards that provide high performance in a single VME slot. The charts on the following page offer a glimpse of the key features. For complete details on each board, please go to the **SBC section** of our website.



Choose from the chart at right based on your project requirements. For board detail, please refer to the individual datasheets available on our website.

Operating System:

The VMEbus AppliPak is available with a choice of operating systems, dependent on the processor selection. Please note that the optional MBiT is available only with the selection of VxWorks on a Motorola PowerPC SBC.

VxWorks™

WIND RIVER

The VxWorks® operating system is the run-time component of a real-time embedded platform. It includes Wind River Workbench, the Eclipse-based, end-to-end development suite. It is one of the most widely adopted real-time operating systems (RTOS) in the embedded industry. It is flexible, scalable and reliable. For full details, please visit the **software** section of our website.

Sysgo Linux



Sysgo offers the ELinOS embedded Linux operating system and the partitioned real-time operating system PikeOS. Both products are supplemented by development tools CODEO and COGNITO. For full details, please visit the **software** section of our website.

The AppliPak is also available with other versions of Linux. Please contact us for details on additional RTOS support.

Chassis/Enclosures:

ACT/Technico can provide the entire bundle in a chassis. We have a wide variety to choose from: 19" rack-mount or desktop/tower; 2 to 21 slots vertically or horizontally mounted, and rugged. Power and cooling are included. Each system is fully tested before shipping. Please visit our **Chassis** section for more information.



Mass Storage:

PMC Storage Devices

Choose from ACT/Technico's growing line of PMC storage devices. The PMCStor family is based on CF devices, available up to 16 GB. This includes the

Conduction Cooled PMCStor, Secure PMCStor, and PMCStor. The **PMC ShuttleStor and PMCDisk** use either 1.8" or 2.5" rotating or solid state flash drives, available up to 120

GB. They require no additional space as they fit directly in one of the SBC's PMC sites. (*Check our website for the latest drives*).

Transition Modules or Breakout Boards:

Use of these boards can provide additional I/O out the rear of a chassis without taking up additional space. When an AppliPak is selected with a transition module or breakout board, the appropriate IPMC will be included. IPMC modules provide rear I/O support for a single-ended Ultra Wide SCSI port, one parallel port, and four serial ports (2 or 3 async and 1 or 2 sync/async, depending on module). See datasheets or go to our website for details.

Networking and Other Interfaces:

PMC Modules:

There are two PMC sites on these SBCs, so in addition to storage, there are other functions that can be added. Choose from modules for Ultra SCSI interfaces, two or four ports of 10/100 and Gigabit Ethernet, as well as audio, digital video and more. See the our website for a full selection.

Ethernet Switches:

We have an extensive offering of VME Ethernet switches. From 8 to 26 ports, 10/100 and Gigabit, they are available in standard, extended temp and conduction cooled versions. Available features include Layer 2/3, Multicast, IPv6, and more.



PowerPC based Single Board Computers

Due to strong relationships with our key suppliers, we offer solutions with increased value without added cost. We supply competitively priced, fully tested, and integrated VMEbus SBCs. We can also include user defined boot firmware so your system arrives ready to "Boot and Go".

Choose from any of the following PowerPC boards:

Motorola P/N	Processor Speed	SDRAM (MB)	Flash (MB)	Temp Grade	FP Handle Type	ACT P/N
MVME5100-0161	450 MHz MPC750	512	17	S, E	VME Scanbe	5100-0161
MVME5100-0163	450 MHz MPC750	512	17	S, E	IEEE 1101	5100-0163
MVME5110-2161	400 MHz MPC7410	512	17	S, E	VME Scanbe	5110-2161
MVME5110-2163	400 MHz MPC7410	512	17	S, E	IEEE 1101	5110-2163
MVME5110-2261	500 MHz MPC7410	512	17	S, E	VME Scanbe	5110-2261
MVME5110-2263	500 MHz MPC7410	512	17	S, E	IEEE 1101	5110-2263
MVME5500-0161	1 GHz MPC7455	512	40	S, E	VME Scanbe	5500-0161
MVME5500-0163	1 GHz MPC7455	512	40	S, E	IEEE 1101	5500-0163
MVME3100-1152	667 MHz MPC8540	256	128	S, E	IEEE 1101	3100-1152
MVME3100-1263	833 MHz MPC8540	512	128	S, E	IEEE 1101	3100-1263
MVME6100-0161	1.267 GHz MPC7457	512	128	S, E	VME Scanbe	6100-0161
MVME6100-0163	1.267 GHz MPC7457	512	128	S, E	IEEE 1101	6100-0163
MVME6100-0171	1.267 GHz MPC7457	1 GB	128	S, E	VME Scanbe	6100-0171
MVME6100-0173	1.267 GHz MPC7457	1 GB	128	S, E	IEEE 1101	6100-0173

Other PowerPC SBCs

865-010-740	1GHz MPC7447A	512	128	S, E, CC	IEEE 1101	5800-S
865-010-060						5800-X
865-010-795						5800-CC
865-020-740	1 GHz MPC7448	512	256	S, E, CC	IEEE 1101	5801-S
865-020-760						5801-X
865-020-795						5801-CC
865-021-740	1 GHz MPC7448	1 GB	256	S, E, CC	IEEE 1101	5801-S
865-021-760						5801-X
865-021-795						5801-CC

Temperature Range Guide:

S = Standard commercial range of 0 to +55 °C
E = Extended temperature range of -20 to +70°C
CC = Conduction Cooled to meet -40 to +85°C

Breakout Boards:

The MOT-BOB is a P2 paddle board that provides breakout of the I/O on Motorola SBCs. They are used to route I/O from the SBC to a custom cable panel. Refer to the chart below to find the appropriate MOT-BOB for your application. For details on Breakout Boards, please refer to our website.

Transition Modules:

Standard features of rear transition modules can include SCSI, serial ports via RJ45 connectors, parallel port, and front panel LED indicators. The TVME761D-1 is a direct plug-in 80 mm transition module.



MVME5100
MPC750



MVME5500
MPC7455



MVME3100
MPC8540



MVME6100
MPC7457



T580x
Family
MPC7447/
7448

