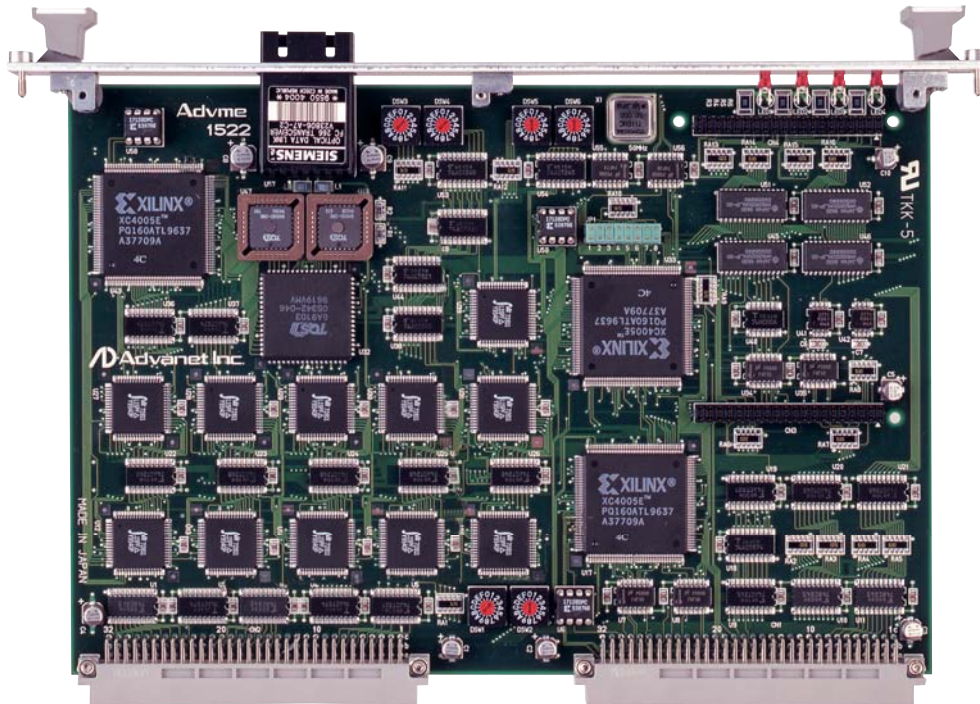


# Advme1522A

## Shared Memory Board



### Features

- Shared memory board for sharing data between distributed systems
- Fiber communication system for sharing data between remote locations
- Use by connecting multiple Advme1522A or Adpci1523 (shared memory board for PCI bus) boards in a loop using optical fiber
- Only the resistor for default settings and shared memory area can be accessed from software
- Ideal for linking remote systems and linking VME bus systems with PCI bus systems
- Built-in communication function with a bit rate of 250Mbit/s and data communication speed of 4MBytes/s
- Communication function for all hardware
- Mapping of shared memory area can be modified and memory size can be expanded
- Built-in adjacent node failure and cable break detection function
- Added CRC and data backup to ensure high reliability of communications
- Interrupt command to control the timing of data updates between nodes
- Shared memory with PCI bus possible (byte endian swap function)
- Device drivers and sample programs for VxWorks available (option)

### Application Areas

- Industrial process control, transportation system control and so forth Control systems requiring real-time properties for sending and receiving data
- Data processing systems requiring high speeds including image data processing and voice data processing systems
- Weather observation, seismic observation, production line monitoring in factories and so forth
- Systems for collecting real-time data from remote areas

### Specifications

- No. of communication ports : 1-channel
- Communication system : Fiber channel
- Bit rate : 250Mbit/s
- Cable : Multi-mode optical fiber
- No. of boards connectable in one loop : Up to 255
- Cable distance between boards : Up to 1km
- Connector : SC (one for sending, one for receiving)
- Shared memory size
  - 128KBytes (can be expanded to 1MByte, 2MBytes, 4MBytes or 8MBytes)
- Bus interface
  - VMEbus Revision C.3 compliant
  - A24 or A32 (selectable)
  - D32, D16 and D8 (EO) support
- Power requirements : +5V±5% 1.0A (typ.) (received from VME bus)
- Board size : 262mm x 172mm x 20mm Double height/Single slot (excluding protrusions such as connectors)
- Weight : 310g (typ.)