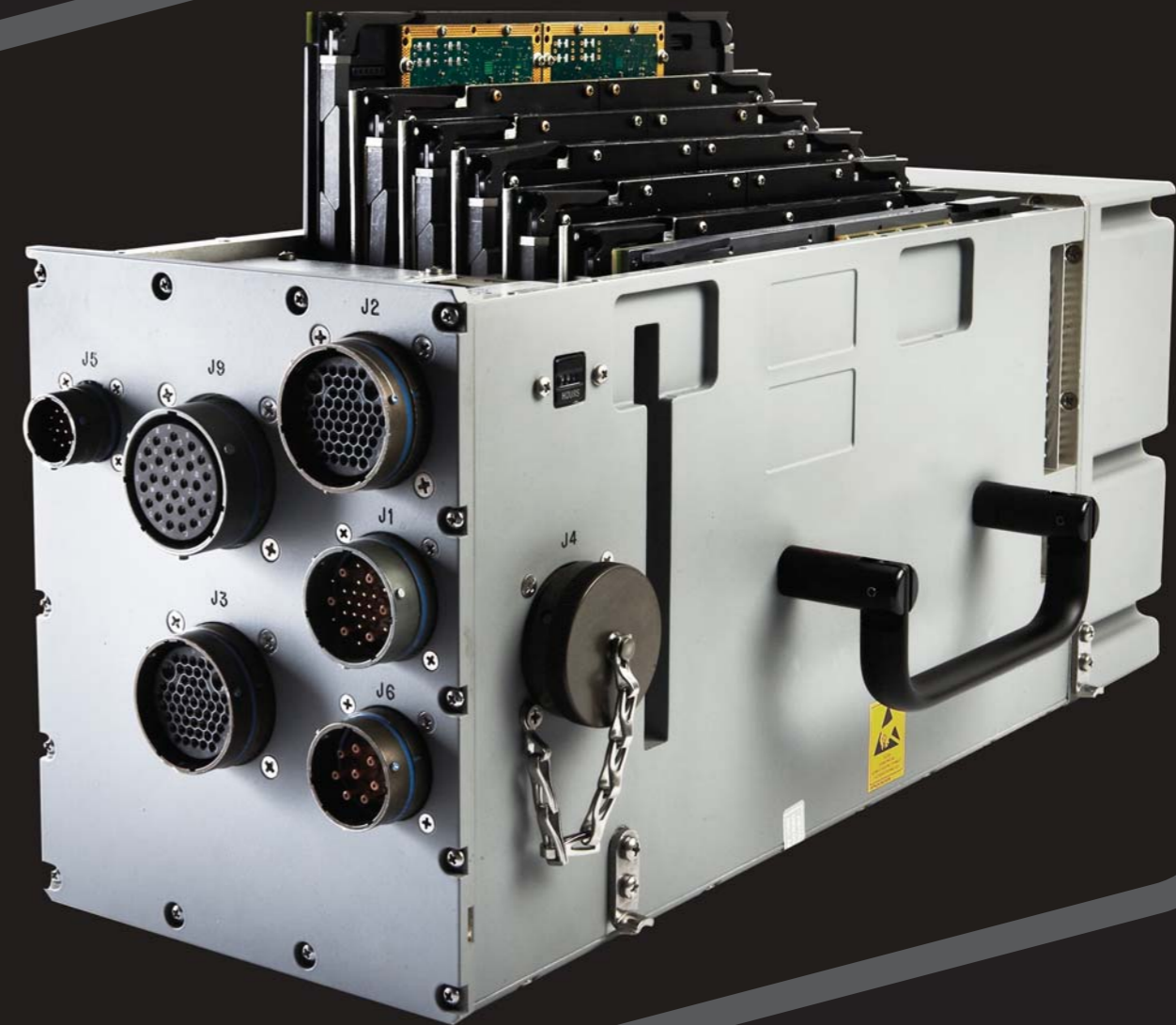


Multi-Mission Processor



Singapore Technologies Aerospace Ltd

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From left: Glass cockpit design • 3D design • Engine performance indication • Colour digital moving map • Electronic Flight Instrument System (EFIS)

True to our maxim of leveraging leading edge technology, ST Aerospace provides you with customised avionics system upgrades for fixed and rotary wing aircraft platforms with our state-of-the-art multi-mission processors.

Our Own Multi-Mission Processor Capability

- High speed processor delivering 917MIPS at 500MHz
- Highly flexible video switching with graphical overlays, powered by high performance graphics processor
- Customisable interfaces and comprehensive video graphics capabilities to meet different platform requirements
- Open architecture VME64x allowing rapid integration of commercial-off-the-shelf (COTS) modules
- VxWorks® realtime operating system for time critical applications



Next generation video graphics board delivers fast processing, powerful graphics and visuals for aircraft platforms

Our multi-mission processors are equipped with next generation CPU/video/graphics boards for fast processing power, powerful graphics engines and high resolution displays.

Key Features

- High performance PowerPC™ G4 processor
- High speed L2 cache
- Large programme and data memory
- Powerful graphics processor
- 2D and 3D graphics generation
- Three channels of simultaneous video/graphics
- Comprehensive video capabilities
- Digital video DVI and OpenLDI interface
- Dual PMC interface
- Picture-in-picture and frame grabber capabilities
- Open architecture VME64 master/slave interface
- VxWorks® BSP and complete driver suite
- OpenGL compatible graphics drivers

Specifications

- PowerPC™ G4 processor capable of 917MIPS
- Communication: 10/100/1000Mbps Ethernet per IEEE 802.3 and EIA RS232 ports
- Dual PMC sites per IEEE P1386.1 (supporting 32-bit/64-bit, 66/33MHz, 5V/3.3V)
- Video inputs (up to 16): Composite video (NTSC/PAL), monochrome video (RS170, modified RS170), Y-C video (NTSC/PAL), RGB interlaced video (RS170 RGB/STANAG 3350 Class B/C), DVI and OpenLDI digital video
- Video outputs (up to 4): Integrated RGB (STANAG Class B/C), OpenLDI and DVI non-interlaced digital video, composite or Y-C video (NTSC/PAL)
- Power: +/-12V, +5V and +3.3V from VME64x backplane
- Conduction cooled VME per IEEE 1101.2-1992
- Designed for military standard operating environment



7-slot fixed wing custom installation



Rotary wing 1 ATR



4-slot fixed wing custom installation