

## Multi-drive Mass Storage Module

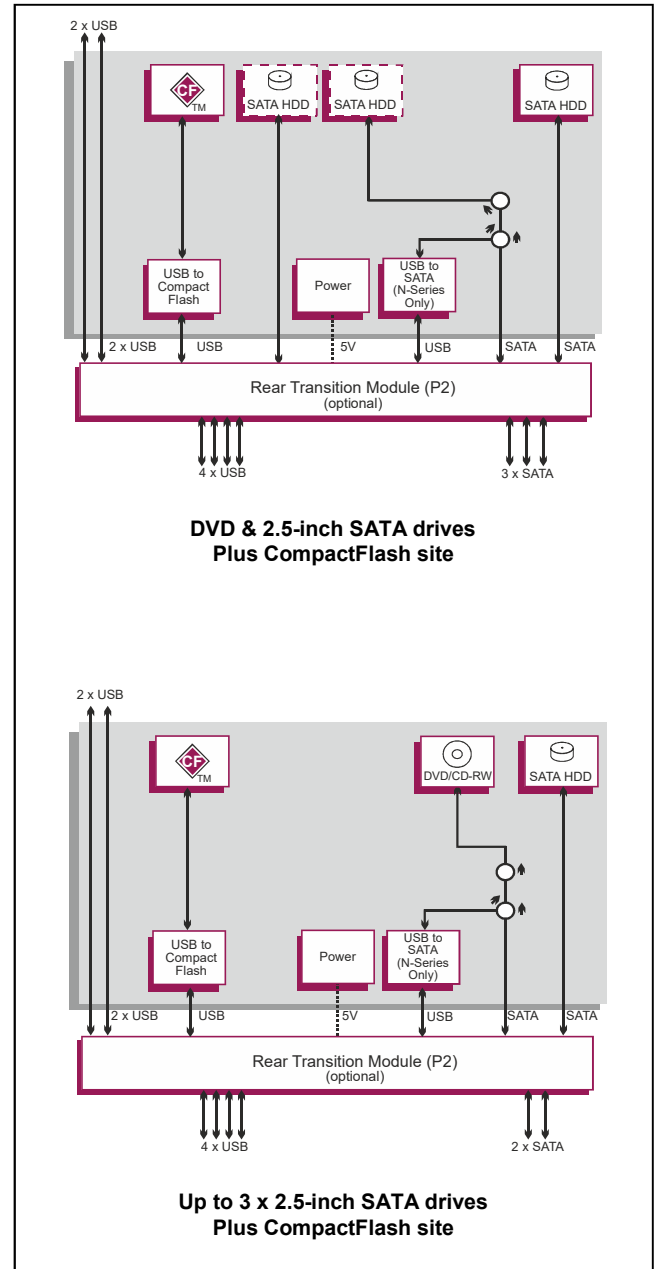
### Key Features

DS MS1/0xx is a mass storage module that is designed to work with one or more Concurrent Technologies VME processor boards.

- Various configurations available supporting 2.5-inch SATA drives and a CD/DVD drive
- Supports a CompactFlash® site (Type-I) in any configuration
- Two direct USB port connections from the VME P2 connector are routed directly to the front panel
- Extended temperature and rugged conduction-cooled variants available
- Optional rear transition module required to connect SATA ports from processor boards



Up to 3 x SATA300 drives  
(also available with SATA300 drive and CD/DVD RW drive)



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## Mass Storage Module

- DS MS1/0xx Mass Storage Module:
  - operates with one or more Concurrent Technologies VME or VXS single board computers (host boards) simultaneously
  - interfaces to the host boards' SATA and USB ports
  - SATA150 or SATA300 supported
  - USB 1.1 and USB 2.0 supported
- various configurations available:
  - one, two or three 2.5 inch SATA300 drives
  - or one 2.5 inch SATA300 drive and a SATA CD/DVD RW
- supports a CompactFlash<sup>®</sup> site (Type-I) in any configuration

## Compatible VME/VXS Host Boards

- contact your local sales office for the latest range of host boards supported

## SATA and USB Interfaces

- one or more host board SATA/USB connections can be made from the host board to the DS MS1/0xx Mass Storage Module
- 3 x host board SATA drive interfaces via P2:
  - 1 x host board SATA interface connects to either a SATA drive or the SATA CD/DVD RW
  - 2 x host board SATA interfaces connect to 2 x SATA drives
- 4 x host board USB ports via P2:
  - 1 x host board USB port connects to the EIDE CompactFlash<sup>®</sup> site
  - 1 x host board USB port connects to either a SATA drive or the SATA CD/DVD RW (N-Series only)
  - 2 x USB port connections from the VME P2 connector are routed directly to the front panel
- the CB MSS/30p cable interface kit provides:
  - connection to the SATA and USB ports on P2
  - SATA and USB interface cables
  - rear transition module for the DS MS1/0xx

## Software Support

- supported operating systems depend on the VME or VXS host board used

## Safety

- PCB (PWB) manufactured with flammability rating of UL 94V-0

## Environmental Specification

- in harsh environments specialized Solid State Flash drives are required:
  - CD/DVD RW drive is not supported
- operating temperatures:
  - 0<sup>°</sup> C to +55<sup>°</sup> C (N-Series)
  - -25<sup>°</sup> C to +70<sup>°</sup> C (E-Series)
  - -40<sup>°</sup> C to +85<sup>°</sup> C (K-Series)
  - K-Series includes humidity sealant
- rugged versions:
  - rear plug compatible
  - conduction-cooled: see DS MS1/034-RC datasheet

## Electrical Specification

- requires 5V supply, typical current 0.2A plus:
  - maximum 1.1A per hard disk @ 5V
  - maximum 1.5A CD/DVD RW @ 5V
- 3.3V, +12V and -12V supplies are not required

## Mechanical Specification

- 6U form-factor
- single slot, front panel width 0.8 inch (20.3mm)
- utilizes 160-way connectors for P1 and P2
  - compatible with 96-way connectors