



BREATHING LIFE INTO MACHINES

Trio Motion Technology Ltd.
Shannon Way, Tewkesbury,
Gloucestershire. GL20 8ND
United Kingdom
Tel: +44 (0)1684 292333
Fax: +44 (0)1684 297929

Web: www.triomotion.com

Doc No.: TN20-41
Version: 1.0
Date: 27th November 2001
Subject: Motion Coordinator RAM Battery

1000 Gamma Drive
Suite 206
Pittsburgh, PA 15238
Ph: +1 412.968.9744
Fx: +1 412.968.9746

Application Note

Battery Backed RAM

A battery is included within the MC Euro205, MC204, MC206 and MC216 to maintain the RAM memory contents when the Motion Coordinator is not powered. This document gives details of battery performance under typical standby(1) operating conditions. Overall battery life is quoted by the manufacturer as 6 years(2) at 20°C and 3 years(2) at 45°C.

RAM Battery performance table.(2)

Table with 5 main columns: Euro205, MC204, MC206, MC216. Each column has sub-columns for Typical and Min. Rows include Battery type, Capacity, Voltage, Standby time (months), Re-charge time with system power on, Programs maintained by battery, User Variables maintained, and Table memory maintained.

Notes:

- (1) "Standby" use means that the battery is being constantly trickle charged.
(2) We have made every effort to ensure that the information contained in this application note is correct. However, data is subject to change without notice and Trio cannot be held responsible for any omissions or errors that occur. This application note neither replaces nor extends Trio Motion Technology's standard warranty terms and conditions.
(3) Discharge times for new battery at 20°C, minimum discharge time at operating temperature of 45°C. A battery at the end of it's life will discharge in a much shorter time.
(4) Figure assumes the battery is completely discharged and gives the time required to achieve full charge. Note that if the battery is in deep discharge, it will take up to 3 charge/discharge cycles to bring it back to full capacity.
(5) For greater security, the programs can be stored in FLASH EPROM.