DELTA TAU Data Systems Inc.
Turbo PMAC2 Motion Controller Using MECHATROLINK-III

Features

Turbo PMAC2 Motion Controller : UMAC & CRUISER System
CPU Board : 80Mhz/160MHz/240Mhz DSP563XX
Host Comm. : TCP/IP Ethernet and Serial

Trajectory Generation Features
Linear interpolation mode with S-curve accel/decel
Circular interpolation mode with S-curve accel/decel
Rapid point-to-point move mode
Cubic Hermite-spline (PVT) interpolation mode
Altered destination on the fly
Interactive jog moves
G-code Application (CNC)
Multi-move lookahead for velocity and acceleration limiting

UMAC-ML3 : MECHATROLINK-III Master Card for (POWER) UMAC System
CRUISER-Serise : MECHATROLINK-III Master Card for CRUISER System

Specification

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Port</td>
<td>4 port (2 Master/1Card)</td>
</tr>
<tr>
<td>Control method</td>
<td>Motion control by MECHATROLINK-III (Interpolation, Position, Velocity, Torque)</td>
</tr>
<tr>
<td>Number of control axis</td>
<td>1Master : 8 axes Interpolation / 32 axes P-to-P</td>
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<tr>
<td></td>
<td>2Master : 16 axes Interpolation / 64 axes P-to-P</td>
</tr>
<tr>
<td>Control Servo Drivers</td>
<td>Linear/Rotary Type Sigma V Servo Driver for MECHATROLINK-III (Yaskawa)</td>
</tr>
<tr>
<td>Motion program</td>
<td>Positioning, Liner Interpolation, Circular Interpolation, Zero point search, Interruption feed, Time constance positioning, Velocity command, Torque command</td>
</tr>
</tbody>
</table>

MECHATROLINK specifications

<table>
<thead>
<tr>
<th>M-III</th>
<th>32-byte</th>
<th>48-byte</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Slave</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmission</td>
<td>0.5ms to 2ms</td>
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