

High Speed

Precise Sync

Low-cost Cable

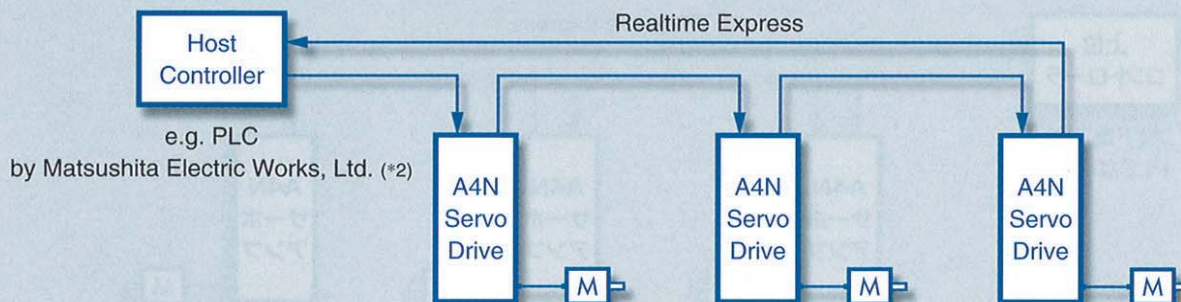
High Speed Network Servo MINAS A4N

- 100Mbps Realtime Express (RTEX)
- 0.5ms cycle with up to 32 axes ^{(*)1}
- Precise synchronization allowing interpolation
- Max. 60m inter-node, Shielded twisted pair cable
- IEC61000-4-4 compliant noise immunity



MINAS-A4N is based on the high performance MINAS-A4, and has the original servo network Realtime Express (RTEX) as interface with a host controller. RTEX allows high resolution and fast motion to be commanded, that is impossible in conventional pulse interface, and its very short transmit-time makes the servo performance maximum. In addition, the commands are reflected in all axes at the same time, so that it is suitable to apply to Continuous Path motion as well as Point to Point. RTEX allows various information to be exchanged, such as parameter setting and data monitoring ^{(*)1} as well as motion commanding, however, the wiring is more reduced drastically than conventional interface. Although using low cost cable of shielded twisted pair, high noise immunity in compliance with IEC61000-4-4 will make you satisfied.

■ System Structure (3 axes case)



■ Specifications for Realtime Express

Speed / Period	100Mbps Full Duplex / 0.5ms ^{(*)3}
Topology	Ring
Cable	Shielded Twisted Pair, CAT5e compliant or more
Cable Length	Inter-node: Max. 60m, Total: Max. 200m
Number of Axes	Up to 32 ^{(*)1}
Motion Interface	Position Command ^{(*)4}

^{(*)1} It depends on the specification of the host controller. ^{(*)2} If you develop host controller by yourself, please contact us. The technical documents for the communication can be provided. ^{(*)3} Although the communication period is 0.5ms, data update period is either 1 or 0.5ms depending on the host controller. ^{(*)4} For any other command, please contact us.

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