



mbs ÆsyBus ...what makes the difference ?

...how our unique architecture can be exploited to provide a cost effective, distributed interface :

- ÆsyBus Modules can be connected to any computer with an Ethernet Interface: you have the freedom to choose the computer which best suits your application and you are not restricted by the availability of interface cards.
- The use of UDP/IP protocol allows ÆsyBus Modules to be accessed via almost any operating system. ÆsyBus Modules are platform independent. They need no special software drivers.
- Up to 10 users/applications can access the Modules concurrently. This offers a significant simplification for system design, allowing multiple applications to access and control the Module interface resources. With traditional interfacing, only one application can access an interface and this application has to collect and distribute data to any other application/computer that requires it. The ÆsyBus design approach avoids this obvious I/O bottleneck because each application, whether on the same computer or anywhere else within the network, can access data directly.
- Unlimited number of ÆsyBus modules per installation are possible. Available types cover ARINC 429, MIL-1553, AFDX, CAN, RS-485, ARINC 717 and persistent more. You require a special IO-type ? Ask us !
- A user has the option to broadcast receive data with ÆsyBus modules. With this option any number of networked applications can access data.
- Any networked test- & integration system – and all of them are – would require a dedicated computer and software in order to integrate I/O-interface cards into the net infrastructure. Our ÆsyBus Modules provide a complete off-the-shelf networked solution for essentially the same cost as competitor's I/O-interface card.
- A system designer can exploit the many possibilities of the low cost Ethernet infrastructure including WLAN, power supply over the Ethernet cables (Power over Ethernet), access to fibre optics, etc. etc.
- Customer investment in application software and development is secure: Ethernet has been in existence for more than 30 years and will continue to exist into the distant future.
- An added advantage of Ethernet is its intrinsic hot-plugging feature.
- Periodic messages from ÆsyBus Modules can be used as the timing signal for real time applications and synchronisation purposes.
- Low latency is achieved through the use of UDP/IP protocol. Full duplex switched Ethernet ensures data integrity. All time critical tasks are performed in hardware.

For more information please contact:

MBS Electronic Systems GmbH/Germany
info@mbs-electronics.com
www.mbs-electronics.com