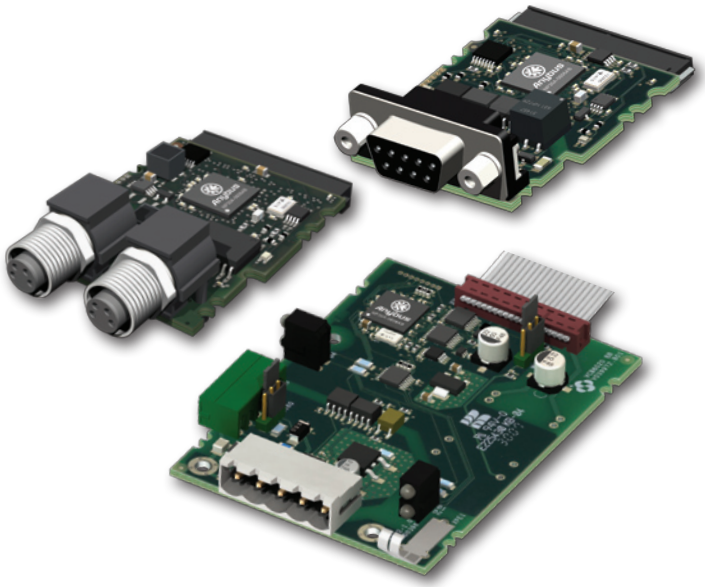
Customized Communication Modules

Individual hardware solutions tailor-made to meet your specific application requirements



- Individual solutions based on proven Anybus NP-30 technology
- Short development time
- Low development risk
- Fixed development price
- Continious software maintenance by HMS, free of charge
- Just-in-time manufacturing and supply from HMS

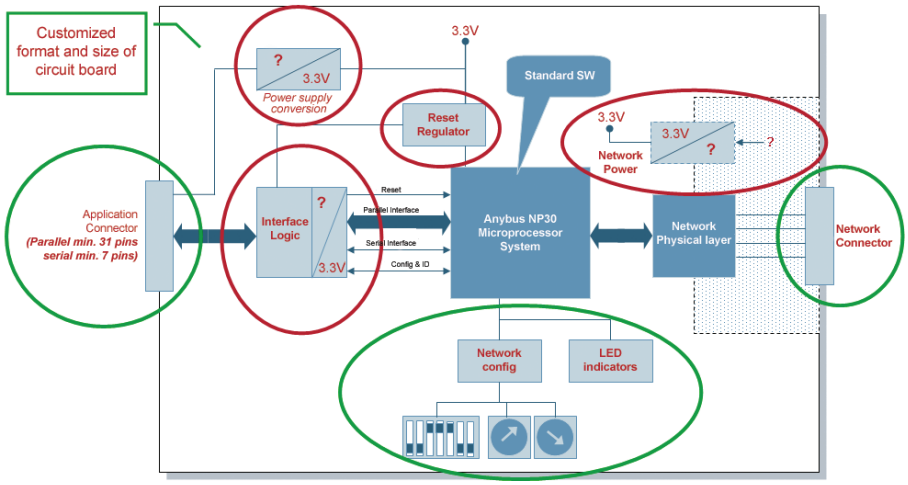
Available for all leading Fieldbus and Industrial Ethernet networks

Based on the proven Anybus standard communication modules, HMS offers customized network interfaces tailor-made for specific requirements such as high mechanical ratings (IP65), individual form factors or board sizes, specific connectors or power supply requirements.

Customized Anybus interfaces always use the standard Anybus software technology and have the same software interface as the standard Anybus modules. Customers benefit from short development times, low development risk, fixed development cost and moreover get the advantage of continuous software maintenance by HMS without any additional cost.

After the development is completed, HMS produces the customized interfaces at the HMS manufacturing site and delivers the boards just-in-time in accordance with the individual requirements of the customers.

HMS offers two levels of hardware customization. Regardless of the customization level, always the certified standard Anybus hardware and software technology is used.



In level 1 (green), only minor mechanical and hardware modifications are made. The main hardware functionality of the standard Anybus module is kept unchanged.

In level 2 (red), additional hardware modifications allow even more adoption to custom specific requirements.

Project workflow

- Step 1: Together with the customer, the HMS Field Application Engineer will create a detailed specification of the custom solution.
- Step 2: After approval of the specification from both parties, HMS will make a binding offer regarding the one-time development fee and the cost of the final module.
- Step 3: HMS will develop the module according to the specification and will provide engineering samples to the customer.
- Step 4: After approval of the engineering samples by the customer, HMS will setup the manufacturing and quality system and is ready for volume deliveries.
- Step 5: HMS offers consultancy during fieldbus certification and trainings for the customers sales force.
- Step 6: The hardware and the software versions of the custom module will be “locked”. HMS will notify the customer about recommended software updates that may result from improvements of the HMS standard software.

Development project outcome

As a result of the development project, HMS supplies the following items:
- Product Specification
- 10 prototypes, (5 units for HMS testing and 5 units for customer test & approval)
- Mechanical CAD drawings
- Electrical specifications (connectors and signals)
- Test report from HMS qualification test and pre-compliance EMC test
- Optional: EMC, UL, approval tests; network conformance testing

Custom level 1 (Green)

- Hardware functionality based on standard Anybus-S; Anybus-IC or Anybus-CC communication modules
- Individual mechanical solution
- Individual format of the printed circuit board
- Individual network connectors
- Individual application connectors
- Individual LEDs and configuration switches
- Individual labels and part numbers

Custom level 2 (Red)

- Individual power supply
- Individual application interface logic
- Individual power monitoring and reset circuitry
- Individual power supply on the network side

Software features

- Same application software interface as standard Anybus communication modules
- Same behavior on the fieldbus or Ethernet network as standard Anybus communication module

Prerequisitions

Expected volume: minimal 500 pcs p.a. two years after completion of the development