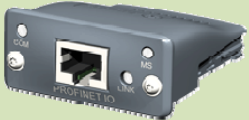



# Profinet Requirements of the AIDA group of Automotive Manufacturer's and Implementation in the embedded Anybus Modules from HMS




Status: September 2009




## A) Anybus-CC Profinet IO Modules

	Anybus-CC 1-Port Module	Anybus-CC 2-Port Module	Further Anybus-CC Modules
Requirement			
HMS Product Status	Series production	Series production	n/a, planned
Functionality	IO Device, Conformance Class A	IO Device, Conformance Class B	IO Device, Conformance Class C
2-Ethernetports per Device	No, single port solution	Yes	Yes
IRT, at least IRT pass-through	Not supported	Not supported	IRT
Media Redundancy MRP	Not relevant	Planned when available in Stack	Yes
Physical network interface and connectors	Copper, IP20, RJ45 (IP65 customized versions)	Copper, IP20, RJ45 (FO / IP65 as customized version)	copper, IP20, RJ45 (FO / IP65 as customized version)
Fast-Startup	Yes	Yes	Yes
TCI Support	Possible through Application	Possible through Application	Possible through Application
PNO Certificate	Yes	Yes	planned
Profisafe	Module can be part of black channel	Module can be part of black channel	Module can be part of black channel
Busdiagnostic LEDs	Yes	Yes	Yes
DCP, DHCP	Yes	Yes	Yes
Broadcast Bursts	According PNO specification	According PNO specification	According PNO specification
Central SW Management	Yes, via FTP	Yes, via FTP	Yes, via FTP
Topology Recognition LLDP	Yes	Yes	Yes
Interface to an iPAR Server	planned	planned	planned
Network Management SNMP	Yes	Yes	Yes
IT-Functions	Webserver, FTP, E-Mail, TCP/IP Socket	Webserver, FTP, E-Mail, TCP/IP Socket	Webserver, FTP, E-Mail, TCP/IP Socket
Profinet Stack Version	Siemens 3.0.0.0	Siemens 3.0.0.0	TBD
Processor	Anybus NP30	Anybus NP30	Will be based on next Chip Generation
HMS Order Number	AB6215	AB6221	TBD

## B) Anybus-S Profinet IO Modules

	Anybus-S 1-Port Module	Anybus-S 2-Port Module	Anybus-S Fibre Optic Module
<b>Requirement</b>			
<b>HMS Product Status</b>	Series production	Series production	Prototypes available
<b>Functionality</b>	IO Device, Conformance Class A	IO Device, Conformance Class C	IO Device, Conformance Class C
<b>2-Ethernetports per Device</b>	No, single port solution	Yes	Yes
<b>IRT, at least IRT pass-through</b>	Not supported	IRT	IRT
<b>Media Redundancy MRP</b>	Not relevant	Planned when available in Stack	Planned when available in Stack
<b>Physical network interface and connectors</b>	Copper, IP20, RJ45 (IP65 customized version)	copper, IP20, RJ45 (IP65 customized version)	Fibre Optic 2x SC-RJ Connector
<b>Fast-Startup</b>	To be implemented with next update	Yes	Yes
<b>TCI Support</b>	Possible through Application	Possible through Application	Possible through Application
<b>PNO Certificate</b>	Yes	Yes	Planned 2009
<b>Profisafe</b>	Module can be part of black channel	Module can be part of black channel	Module can be part of black channel
<b>Busdiagnostic LEDs</b>	Yes	Yes	Yes
<b>DCP, DHCP</b>	Yes	Yes	Yes
<b>Broadcast Bursts</b>	According PNO specification	According PNO specification	According PNO specification
<b>Central SW Management</b>	Yes, via FTP	Yes, via FTP	Yes, via FTP
<b>Topology Recognition LLDP</b>	Yes	Yes	Yes
<b>Interface to an iPAR Server</b>	planned	planned	planned
<b>Network Management SNMP</b>	Yes	Yes	Yes
<b>IT-Functions</b>	Webserver, FTP, E-Mail, TCP/IP Socket	Webserver, FTP, E-Mail, TCP/IP Socket	Webserver, FTP, E-Mail, TCP/IP Socket
<b>Profinet Stack Version</b>	Siemens 2.2.0.3	Siemens 3.1.0	Siemens 3.1.0
<b>Processor</b>	Motorola MCF5272	ERTEC 200	ERTEC 200
<b>HMS Order number</b>	AB4392	AB4474	AB4571

### C) Anybus-IC Profinet IO Modules

	Anybus-IC 1-Port Module	Further Anybus-IC Modules
<b>Requirement</b>		
<b>HMS Product Status</b>	Series production	Not planned yet
<b>Functionality</b>	IO Device, Conformance Class A	IO Device, Conformance Class B
<b>2-Ethernetports per Device</b>	No, single port solution	Yes
<b>IRT, at least IRT pass-through</b>	Not supported	Not supported
<b>Media Redundancy MRP</b>	Not relevant	Planned
<b>Physical network interface and connectors</b>	No network connector on board suitable for RJ45 and M8, M12	No network connector on board suitable for RJ45 and M8, M12
<b>Fast-Startup</b>	To be implemented with next update	Yes
<b>TCI Support</b>	Possible through Application	Possible through Application
<b>PNO Certificate</b>	Yes	planned
<b>Profisafe</b>	Module can be part of black channel	Module can be part of black channel
<b>Busdiagnostic LEDs</b>	No LEDs on board can be connected externally	No LEDs on board can be connected externally
<b>DCP, DHCP</b>	Yes	Yes
<b>Broadcast Bursts</b>	According PNO specification	According PNO specification
<b>Central SW Management</b>	Yes, via FTP	Yes, via FTP
<b>Topology Recognition LLDP</b>	Yes	Yes
<b>Interface to an iPAR Server</b>	planned	planned
<b>Network Management SNMP</b>	Yes	Yes
<b>IT-Functions</b>	Webserver, FTP, E-Mail, TCP/IP Socket	Webserver, FTP, E-Mail, TCP/IP Socket
<b>Profinet Stack Version</b>	Siemens 2.2.0.3	t.b.d
<b>Processor</b>	Motorola MCF5272	t.b.d
<b>HMS Order number</b>	AB6005	n/a