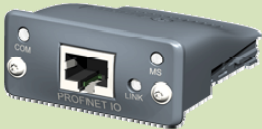



Profinet Requirements of the AIDA group of Automotive Manufacturer's and Implementation in the embedded Anybus Modules from HMS

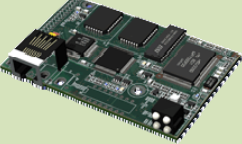


Status: February 2010




A) Anybus-CC Profinet IO Modules

Requirement	Anybus-CC 1-Port Module	Anybus-CC 2-Port Module	Further Anybus-CC Modules
			
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
Requirement			
HMS Product Status	Series production	Series production	Prototypes available
Functionality	IO Device, Conformance Class A	IO Device, Conformance Class C	IO Device, Conformance Class C
2-Ethernetports per Device	No, single port solution	Yes	Yes
IRT, at least IRT pass-through	Not supported	IRT	IRT
Media Redundancy MRP	Not relevant	Planned when available in Stack	Planned when available in Stack
Physical network interface and connectors	Copper, IP20, RJ45 (IP65 customized version)	copper, IP20, RJ45 (IP65 customized version)	Fibre Optic 2x SC-RJ Connector
Fast-Startup	To be implemented with next update	Yes	Yes
TCI Support	Possible through Application	Possible through Application	Possible through Application
PNO Certificate	Yes	Yes	Planned 2010
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 2.2.0.3	Siemens 3.1.0	Siemens 3.1.0
Processor	Motorola MCF5272	ERTEC 200	ERTEC 200
HMS Order number	AB4392	AB4474	AB4571

C) Anybus-IC Profinet IO Modules

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