

Properties	Basic (BA) for PN	Standard (ST) for PN	High Feature (HF) for DP	High Feature (HF) for PN	High Speed (HS) for PN
Application	- optimized for small stations - for basic requirements	- optimized for standard configurations - for standard requirements	- highly flexible utilization - extended functions for additional requirements	- highly flexible utilization - extended functions for additional requirements	- optimized for short reaction times - for rapid data exchange
Interface	integrated RJ45 socket	PROFINET connection via copper bus adapter	integrated RS485 interface	PROFINET connection via copper or FO bus adapter	PROFINET connection via copper or FO bus adapter
Modules per rack	max. 12 modules (all except PROFIsafe)	max. 32 modules + 16xET 200AL (all modules)	max. 32 modules + 16xET 200AL (all modules)	max. 64 modules + 16xET 200AL (all modules)	max. 30 modules
Address range	max. 32 bytes per module and station (inputs and outputs)	max. 798 bytes per station and 256 bytes per module (inputs and outputs)	max. 244 bytes per station and 244 bytes per module (inputs and outputs)	max. 1440 bytes per station and 288 bytes per module (inputs and outputs)	max. 968 bytes per station and 32 bytes per module (inputs and outputs)
Configuration module with and without empty spaces	yes	yes	yes	yes	yes
Operation with gaps	yes	yes	yes	yes	yes
Clock-synchronized mode	no	no	no	clock-synchronized from 250µs	clock-synchronized from 125µs
minimum update time	1ms (RT)	1ms (RT, IRT)	dependent on configuration and baud rate of the PROFIBUS, typical 3ms	250µs (RT, IRT)	125µs (RT, IRT)
Hot Swap	Single Hot Swap (one module can be removed and the station continues to run)	Single Hot Swap (one module can be removed and the station continues to run)	Multi Hot Swap (multiple modules can be removed and the station continues to run)	Multi Hot Swap (multiple modules can be removed and the station continues to run)	Multi Hot Swap (multiple modules can be removed and the station continues to run)
I&M data (Identification & Maintenance)	yes: I&O to I&M3	yes: I&O to I&M3	yes: I&O to I&M3	yes: I&O to I&M4	yes: I&O to I&M3
Media redundancy	MRP	MRP	no	MRP	MRP, MRPD
Shared device	no	Shared device up to 2 IO controllers	no	Shared device up to 4 IO controllers	Shared device up to 4 IO controllers
Module-internal Shared Input / Output (MSI / MSO)	no	yes	no	yes	yes
System Redundancy S2	no	no	no	yes	no
Reset to factory settings via RESET key	no	yes	no	yes	yes
Prioritized startup	no	yes	no	yes	yes
Oversampling	no	no	no	yes	yes
Partitioning of the channels of a module to multiple submodules	no	Firmware V3.3 and higher with the HF and HS IO modules	no	yes: Partitioning of the channels of a module to max. 4 submodules	yes: Partitioning of the channels of a module to max. 4 submodules

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