

FOUNDATION fieldbus Stacks – Technical Data

Functionality	H1 Host Stack	H1 Field Device Stack	HSE Server/Client Stack
FMS Client	X	-	HSE Client
FMS Server	X	X	HSE Server
SM + NM Manager	X	-	-
SM + NM Agent	X	X	-
Time Master	X	-	-
H1 Link Master	X	optional	-
High Speed Ethernet	-	-	X
Function Block Shell	-	X	X
Function Blocks	-	AI, AO, DI, DO, PID, MAI, MAO, MDI, MDO, SC, AR, IS	Flexible Function Block (IEC 61131)
Block Instantiation	-	optional	-

Fieldbus Interface	H1 Host Stack	H1 Field Device Stack	HSE Server/Client Stack
Number of Channels	4	1	1
Controller	UFC100-F1, FIND-1+	UFC100-F1, FIND-1+, SPC4-2	Standard BSD Socket
Transfer Rates	31,25 kBit/s	31,25 kBit/s	10/100 Mbit/s

Porting	H1 Host Stack	H1 Field Device Stack	HSE Server/Client Stack
Processors	x86, Motorola CPU32, Infineon C16x, MPC85x, Hitachi H8S	MPC85x, M16C62, Toshiba T900	x86, Motorola CPU32, MPC85x, NetARM, MPC8245
OS	Linux/RTAI, VxWorks, uTRON	Linux/RTAI, embOS, CMX/RTX	Windows NT/2000/XP, Linux, VxWorks, pSOS

Minimum Hardware Requirements	H1 Host Stack	H1 Field Device Stack	HSE Server/Client Stack
CPU-Class	16 Bit	16 Bit	32 Bit
CPU-Cycle	10 MHz	2 MHz	50 MHz
ROM	200 KByte (CPU32)	150KByte (M16C)	110 KByte (CPU32)
RAM	> 256 KByte	> 48 KByte	> 150 KByte