FOUNDATION™ Fieldbus Stack and Function Block Application

FOUNDATION Fieldbus Stack with Extra Features

- Driver for fieldbus controller
- Fieldbus Data Link Layer
- Fieldbus Access Sublayer
- FMS
- Network Management Agent
- System Management Kernel
- Programmatically Accessible Stack Interface
- NI operating system (multi-tasking, non-pre-emptive)
- Non-volatile memory handling
- Back-up Link Active Scheduler (LAS) functionality (optional)
- Function Block Shell with Callback registration system
- Template Driven Object Dictionary
- Hardware startup functionality
Fieldbus Controllers Supported
Aniotek UFC-100
Siemens SPC-42
Texas Instruments DAC8742H (under development)
Others available upon request

Microprocessors Supported
Renesas m16c
STMicro STM32F series and STM32L series (ARM Cortex M3/M4)
Others available upon request

Options
Backup Link Active Scheduler (LAS)
Common Software Download (CSD)
Block Instantiation
Function Block Development Toolkit
Standardized Connection Points (under development)

License Options
Paid-up Source Code
Paid-up Object Code
Paid-up Executable
Royalty Based Executable

FOUNDATION Fieldbus Standard Function Blocks Supported
Analog Input
Analog Output
Discrete Input
Discrete Output
PID Control
PD Control
Control Selector
Ratio
Bias/Gain
Input Selector
Totalizer
Output Splitter
Signal Characterizer
Lead Lag
Deadtime
Others available on request

FOUNDATION Fieldbus Custom Function Blocks Supported
Discrete Control Block
Analog Threshold Block

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