AppSrvCE Application Development Module

Product Specifications

The ProLinx 7000 AppSrvCE Application Development Module is a highly flexible product that delivers programmability, communication protocols, and a powerful embedded historian. The module functionality is fully customizable and programmable using the EZ Design Studio software. Additionally, up to 500 tags of real-time data can easily be stored on the device using the integrated data historian.

The AppSrvCE is the ideal solution for applications requiring custom 'C' programming, emissions monitoring and pharmaceutical manufacturing, or remote applications like utility RTUs, compressor monitoring and facilities monitoring.

Historian

The AppSrvCE uses licensed software technology from OSIsoft to deliver an integrated data historian. The AppSrvCE can log up to 500 tags of real-time data at sub-second speed accessible using OSIsoft's PI product. Additionally, 5 tags of data can be accessed via an OPC HDA server. This historical data is ideal for sequence-of-event recording, process optimization and compliance reporting (FDA, EPA, etc.)

Features

AppSrvCE is available with the following standard features. Additional and modified features are available.

- Supports all five IEC programming languages: Relay Ladder Logic, Sequential Function Chart, Function Block Diagram, Structured Text, and Instruction List.
- "C" for integration of custom code
- Drag-and-drop/menu driven editors enable rapid program development, reduce typing and syntax errors
- Object libraries make code reuse simple and efficient
- Easy debugging – Simulates code execution on the development station
- On-line monitoring with code highlighting and real-time variable update
- Watch, Force I/O values and memory tags
- Supports complex data structures:
  - Three dimensional arrays
  - User defined structures
- Configuration tools for I/O drivers and communication protocols are managed from within EZ Design Studio. The multi-tasking execution engine allows for multiple tasks and priority levels including:
  - Cyclic tasks
  - Continuous task, background priority
  - I/O Sync task, execution sync. with I/O scan
  - Fault task, runs when a fault condition occurs
  - Start-up task, runs once prior to setting outputs to initialize machine state
- AppSrvCE is an industrial platform with no rotating media
- Standard TCP/IP networking between the node and workstation enables:
  - Remote program downloading
  - Remote monitoring
  - Remote node Start/Stop
  - Multi-node management

Module Features	
Operating System	Microsoft Windows CE .NET.
Processor	300 MHz x 86 processor
Storage	32 Mbytes "Disk-on-a-Chip"
SDRAM	32 to 256 Mbytes
SRAM	Battery-backed (512 Kbytes)
Timers	(3) general purpose 16-bit , (1) Watchdog timer
IDE Interface	Type I/II compact flash socket. Supports compact flash. IBM micro-drive, rotating media
Clock	Battery-powered, real time
Software	EZ Design Studio automation software for IEC 61131-3 programming
Protection	DataSafe™ enabled, restores realtime data after a power failure
Status LEDs	(9), 4 user defined, 5 system status
Standard PC Connections	
USB	(2) USB 1.1 host interface ports. 1.5 and 12 Mbit/sec. data rates
Ethernet	(2) Ethernet ports, both are 10/100 Base-T. IEEE 802.3 compliant, Category 5, RJ-45 connectors
Serial Communication	1- RS-232 port standard Add up to 5 additional RS-232, RS-422, RS-485 ports
Video	Standard 15-pin VGA connector up to 1280x1024 (24-bit) display resolution
Protocols	Serial and Ethernet protocols include Ethernet/IP, Modbus and Modbus TCP/IP. Other protocols are available upon request
I/O Compatibility	
Allen-Bradley	Allen-Bradley 1769 Compact I/O Allen-Bradley 1794 Flex or 1795 Integra I/O
Custom Application Modules (CAMs)	Base model ships with a blank CAM. Other CAMs available at request.
Embedded	High-performance I/O (optional)

Hardware Specifications

Temperature	Operating: 0 to 60 degrees C Storage: -40 to 85 degrees C
Mounting	DIN-rail or panel mounting
Humidity	5% to 95% non-condensing
Vibration	10 to 500 Hz 2.0 G max. peak acceleration. 0.012 in (peak-to-peak) displacement
Shock	Operating: 30 G peak for 11ms Storage: 50 G peak for 11ms
Weight	1.7 lbs. (771.107 g)
Power	0.25A @ 24V DC. All internal power generated from 24 VDC +/-20%, user supplied
Battery	Lithium. Maintains a 30 day charge