PRODUCT CATALOG

# ABB ABILITY™ SYMPHONY® PLUS

ENGINEERED
TO OUTRUN



# SD SERIES CONTROLLERS



SPC700

## SPC700

The SPC700 is the ideal controller for mid-size applications. Extremely low power consumption and an extended ambient temperature range enable this versatile controller to operate in challenging remote locations. It accommodates up to 10,000 function blocks and provides closed loop control of up to 1,000 I/O points in under 250 milliseconds.

| Bundled kits (horizontal mounting) | | SPC700K01 | SPC700K02 |
|---|---|---|---|
| SPC700 | Processor module | 1 | **2** |
| MB705 | Non-redundant controller module base | **1** | **–** |
| MB710 | Redundant controller module base | **–** | **1** |
| TER810 | Terminator | **2** | **2** |

| Bundled kits (vertical mounting) | | SPC600VK01 | SPC700VK02 |
|---|---|---|---|
| SPC700 | Processor module | 1 | **2** |
| VB705 | Non-redundant controller module base | **1** | **–** |
| VB710 | Redundant controller module base | **–** | **1** |
| TER810 | Terminator | **2** | **2** |

**For full technical data and datasheets, please visit the Symphony® Plus hardware selector,** symphonyplushardwareselector.com



SPC600

## SPC600

The SPC600 is the ideal controller for small applications. Extremely low power consumption and an extended ambient temperature range enable this versatile controller to operate in challenging remote locations. It accommodates up to 5,000 function blocks and provides closed loop control of up to 500 I/O points in under 250 milliseconds.

| Bundled kits (horizontal mounting) | | SPC600K01 | SPC600K02 |
|---|---|---|---|
| SPC600 | Processor module | 1 | **2** |
| MB705 | Non-redundant controller module base | **1** | **–** |
| MB710 | Redundant controller module base | **–** | **1** |
| TER810 | Terminator | **2** | **2** |

| Bundled kits (vertical mounting) | | SPC600VK01 | SPC600VK02 |
|---|---|---|---|
| SPC600 | Processor module | 1 | **2** |
| VB705 | Non-redundant controller module base | **1** | **–** |
| VB710 | Redundant controller module base | **–** | **1** |
| TER810 | Terminator | **2** | **2** |

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# SD SERIES CONTROLLERS



PNI800

### PNI800

Symphony Plus Plant Network (PN800) is a bidirectional, high-speed and redundant Ethernet control network that operates at a communication rate of 100 Mbaud.

The PN800 network supports the 2010 version of the IEC 62439 Parallel Redundancy Protocol (PRP-0 or PRP) for increased Ethernet network reliability. The benefits of PRP include network redundancy and seamless failover caused by a single point of failure.

The PNI800 (Plant Network Interface) is an Ethernet-based communication module. It provides real-time communication between HPC800/SPCx00 controllers S+ Engineering and S+ Operations PC workstations.

| **Bundled kits** | | **PNI800K01** |
|---|---|---|
| PN800 | Communication module | 1 |
| MB805 | Mounting base for PN800 | 1 |

**For full technical data and datasheets, please visit the Symphony® Plus hardware selector, symphonyplushardwareselector.com.**



PDP800

### PDP800 (PROFIBUS communication)

Symphony Plus allows seamless integration of intelligent field devices using the PROFIBUS communication protocol.

Some of the key features of the PDP800 PROFIBUS Interface module are:

- Module redundancy
- PROFIBUS DP line redundancy
- PROFIBUS DP V0, V1, V2
- PROFIBUS PA devices through third-party DP/PA linking device
- Electric and fiber optic media for PROFIBUS DP link
- Up to 12 Mbps rate of PROFIBUS DP link
- Up to 15 km by fiber optic using PROFIBUS DP link
- Up to 124 slave devices

| **Bundled kits** | | **PIO800K02** |
|---|---|---|
| PDP800 | PROFIBUS communication module | 2 |
| PTU810 | Mounting base for PDP800 | 1 |

**For full technical data download the complete datasheet or contact your ABB representative.**

# SD SERIES CONTROLLERS



CI850

**CI850 (IEC 61850 communication)**

CI850 of the SD Series family allows for direct communication between SD Series controllers and intelligent electronic devices (IEDs), protection relays and other smart devices using the IEC 61850 communication protocol. The CI850 features:

- Dual high-capacity 32 bit CPUs
- Data modeling according to IEC 61850-7-3/4
- MMS client functionality according to IEC 61850-7-2
- GOOSE publisher and subscriber functionality
- Capability to send single and double commands
- Capability to send select before operate commands
- Support for up to 20 IEDs connected to a single CI850

| Bundled kits | | CI850K01 |
|---|---|---|
| CI850 | IEC61850 communication module | 1 |
| MB805 | Mounting base for CI850 | 1 |

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