The PROFIBUS DP Master stack allows implementing a PROFIBUS DP Class 1 and Class 2 Master. It is designed for easy adaptation to individual target platforms and individual requirements.

**Full Range of Functionality**
- Software for implementing a PROFIBUS DP Class 1 or Class 2 Master using an ASPC2 fieldbus controller
- Including PROFIBUS DP versions DP (exchange of cyclic data and diagnosis with slaves), DP-V1 (acyclic data exchange and alarm handling) as well as DP-V2 (isochronous mode, clock synchronization and slave-to-slave communication)
- Application interface similar to Softing’s PROFINET Controller stack, offering a migration path between these protocols

**Improved Plant Availability**
- Support of master redundancy providing seamless switchover from primary to backup PROFIBUS DP Master
- Support of re-configuring individual PROFIBUS slaves without shutting down plant
- Also suitable for sophisticated applications in process automation

**Easy Porting and Scalability**
- Support of flexible software architectures
- Separate porting layer for fast and easy porting to individual target platforms with 16 bit and 32 bit processors and various real-time operating systems
- Scalable through custom selection of features to suit the individual application requirements
### Technical Data

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Supported Slave Devices</td>
<td>≤ 125</td>
</tr>
<tr>
<td>Total Cyclic Input / Output Data</td>
<td>≤ 30,500 Bytes / ≤ 30,500 Bytes</td>
</tr>
<tr>
<td>Input / Output Data Per Slave</td>
<td>≤ 244 Bytes / ≤ 244 Bytes</td>
</tr>
<tr>
<td>Configuration / Parameter / Diagnostic Data Per Slave</td>
<td>≤ 244 Bytes / ≤ 244 Bytes</td>
</tr>
</tbody>
</table>

#### Protocols
- PROFIBUS DP-V0, PROFIBUS DP-V1, PROFIBUS DP-V2, PROFIBUS FDL

#### PROFIBUS DP-V1 Features
- Alarms
- Extended Diagnostics
- Acyclic Read/Write (Class 1 and Class 2)
- Data Transfer (Load Region)

#### Additional Features
- Online Change (re-configuration of individual slaves while rest of the plant continues operating)
- Diagnostic History (diagnostic messages stored in FIFO of configurable size until read by application)
- Optional synchronization between PROFIBUS DP poll cycle and application
- Preprocessing of input data (application is notified when data have changed)

#### Optional Features
- Master Redundancy (seamless master switchover, requires redundancy link between active master and backup master)
- PROFIBUS DP-V2 features (clock synchronization, time stamps, isochronous mode, data exchange broadcast)

### System Requirements

<table>
<thead>
<tr>
<th>Processor</th>
<th>PROFIBUS Fieldbus Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 Bit or 32 Bit CPU</td>
<td>ASPC2</td>
</tr>
<tr>
<td>Code: 256 KB, Static Data: 256 KB, RAM: 512 KB</td>
<td></td>
</tr>
</tbody>
</table>

### Order Numbers

**PROFIBUS DP Master, Protocol Stack for ASPC2 (DP-V0, DP-V1, without master redundancy)**

- KXL-NN-016410 Development Package (includes software and documentation, required for both license models)
- ISL-YY-0015310 Per Unit License for One Master Device (Security EEPROM, packing unit: 250 pieces)
- LAA-NN-0019310 Annual Product License Fee (right to sell an unlimited number of a single customer product for one year)

**PROFIBUS DP Master pro, Protocol Stack for ASPC2 (DP-V0, DP-V1, DP-V2 and master redundancy)**

- KXL-NN-016410 Development Package (includes software and documentation, required for both license models)
- ISL-YY-0015311 Per Unit License for One Master Device (Security EEPROM, packing unit: 250 pieces)
- LAA-NN-0019311 Annual Product License Fee (right to sell an unlimited number of a single customer product for one year)
- LFA-NN-0019340 Option: PROFIBUS DP Line Redundancy for PROFIBUS DP Master IP Core (one-time fee for one customer product)

### Additional Products and Services

- SIA-NN-0018101 PROFIBUS DP Integration Workshop
- DDA-NN-006014 PROFIBUS Tester 5 (BC-700-PB)
- TRA-PB-TECH PROFIBUS Technology Training