PDC600 is a Phasor Data Concentrator that is compliant with the IEEE Standard C37.118.1-2011 for Synchrophasor Measurements for Power Systems and IEEE Standard C37.118.2-2011 for Synchrophasor Data Transfer for Power Systems. PDC600 also fulfils the requirements of the IEEE C37.244 Guide for Phasor Data Concentrator Requirements for Power System Protection, Control, and Monitoring, which describes performance, functional, and communication needs of phasor data concentrators for power system protection, control, and monitoring applications.

Features

**PDC600**
- Phasor Data Concentrator
- Data Aggregation
- Data Forwarding
- Data communications
- Data validation
- Synchrophasor data transfer protocol support
- Data format conversion
- Synchrophasor data latency calculation
- Reporting rate conversion
- Configuration
- Phase and magnitude adjustment
- Performance monitoring
- Redundant data handling
- Duplicate data handling
- Cyber security

**SMT600**
- Synchrophasor Management Tool
  - Defining and validating the PDC configuration
  - PMU/PDC configuration scanning
  - Monitoring of Health Status
  - Data Statistics
    - Data latency
    - Quality Monitoring
    - Processing Time
    - Late/duplicated frames count
  - PDC logs view
Universal and flexible, PDC600 provides a high-performance wide area phasor data concentrator and computing platform. PDC600 supports a wide range of phasor measurement units and meets today’s redundancy concepts.

System hardware requirements:

<table>
<thead>
<tr>
<th>System size*</th>
<th>Low (up to 10 PMUs)</th>
<th>Medium (10-100 PMUs)</th>
<th>High (over 100 PMUs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>&gt;=2 GHz Dual Core</td>
<td>&gt;=3 GHz Multi Core</td>
<td>&gt;=3,5 GHz Multi Core</td>
</tr>
<tr>
<td>Memory</td>
<td>4 GB RAM</td>
<td>8 GB RAM</td>
<td>16 GB RAM</td>
</tr>
<tr>
<td>Storage</td>
<td>HDD 7200rpm</td>
<td>Hybrid HDD SSD 7200rpm</td>
<td>RAID</td>
</tr>
<tr>
<td>Ethernet</td>
<td>1 Adapter 100-1000Mb</td>
<td>&gt;=2 Adapters 100-1000Mb</td>
<td>&gt;=2 Adapters 100-1000Mb</td>
</tr>
</tbody>
</table>

*System requirements depends on PMUs configuration

PDC supported operating systems:

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows 7 Professional 32-bit or 64-bit SP1</td>
<td>SP1</td>
</tr>
<tr>
<td>Microsoft Windows Server 2008</td>
<td>R2</td>
</tr>
<tr>
<td>Microsoft Windows Server 2012</td>
<td>R2</td>
</tr>
<tr>
<td>Microsoft Windows 8.0 32-bit or 64-bit</td>
<td></td>
</tr>
<tr>
<td>Microsoft Windows 8.1 32-bit or 64-bit</td>
<td></td>
</tr>
</tbody>
</table>

For more information please contact:

ABB Schweiz AG
Power Systems
Bruggerstrasse 72
CH-5400 Baden, Schweiz
Phone +41 58 585 77 44
Fax +41 58 585 55 77
E-mail: substation.automation@ch.abb.com

ABB AB
Substation Automation Products
SE-721 59 Västerås, Sweden
Phone +46 21 34 20 00
Fax +46 21 32 42 23

Note:
We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG.

Copyright© 2015 ABB
All rights reserved

www.abb.com/substationautomation