## **SIEMENS**

## **Data sheet**

6AV6676-6MB20-3AX0



SIMATIC MODBUS/TCP PN-CPU Single license, on CD-ROM

Ceneral information  Engineering with  STEP 7 to Protal configurable/integrated from version  STEP 7 configurable/integrated from version  PCS 7 configurable/integrated from version  PCS 7 v7.1 SP2  Redundancy  Redundancy  Redundancy  Redundancy capability  No  Protocols  SIMATIC Communication as Modbus server  Communication as Modbus server  Communication as Modbus server  Communication as Modbus server  Ves  Communication as Modbus server  Ves  Ves  Veres  Communication as Modbus server  Ves  Ves  Ves  Ves  Ves  Ves  Veres  Veres  Veres  Ves  V		
STEP 7 TIA Portal configurable/integrated from version STEP 7 Configurable/integrated from version PCS 7 V7.1 SP2  Redundancy Redundancy capability No PCS 7 V7.1 SP2  Redundancy Redundancy capability Pes Communication as Modbus server PCS 7 V7.1 SP2  Yes PCS 7 V7.1 SP2  Redundancy PCS 7 V7.1 SP2  Redundancy PCS 7 V7.1 SP2  Redundancy PCS 7 V7.1 SP2  PCS 7 V7.1 SP2  Redundancy PCS 7 V7.1 SP2  PCS 7 V7.1 SP2  PCS 7 V7.1 SP2  Redundancy PCS 7 V7.1 SP2  PCS 7 V5.1 SP2  PCS 7 V7.1	General information	
STEP 7 configurable/integrated from version PCS 7 v7.1 SP2  Redundancy Redundancy Redundancy capability No  Protocols  SIMATIC communication Communication as Modbus server Communication as Modbus server User data per job (of which consistent), max.  Operating systems  Runs under operating system Windows XP Windows XP Windows XP Software  Runsime software  Target system — ET 200S — ET 200S — ET 200ro — S7-300 — S7-300 — S7-400 — S9-400 — WinAcC — Suitable for other target system  Block  Local data requirements FB length in RAM, max Multiport FB length in RAM, max Multi-instance capable Ves Communication asta  Multiport Ves Communication SIMATIC S7 as master or slave United configuration software  SIMATIC S7 simster or Significance SIMATIC S7 as master or slave Significance (Configuration support Significance (C	Engineering with	
Redundancy Redundancy Redundancy capability No Protocols  SIMATIC communication Communication as Modbus server Substance Service Servic	<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V13
Redundancy Redundancy capability Redundancy capability  No  Redundancy capability  SIMATIC communication  Communication as Modbus server Communication as Modbus client User data per job (of which consistent), max.  250 byte  Operating systems  Runs under operating system  Windows XP Windows 7 Yes Software  Runtime software  Target system  ET 200S Yes, FW V3.2 or higher S7-300 Yes, FW V3.2 or higher S7-300 Yes, FW V3.2 or higher Yes, FW V6.0 or higher S7-400 Yes, FW V6.0 or higher No Suitable for other target system  Block  Local data requirements Yes, See: https://support.industry.siemens.com/cs/ww/en/view/104946406  Block  Local data requirements 156 byte FB length in RAM, max 19 kbyte FB length in RAM, max Multi-instance capable Yes  Communication data  Multiport Yes Cient-server coupling SIMATIC S7 as master or slave implemented function codes 01, 02, 03, 04, 05, 06, 15, 16  Authorization/icenses Single license (EL) Yes Configuration / programming / header	<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	STEP 7 V5.5 or higher
Redundancy capability  Protocols  SIMATIC communication  Communication as Modbus server Communication as Modbus client Yes Communication as Modbus client Yes Communication as Modbus client Yes Communication as Modbus server Yes Communication as Modbus server Yes Ves Communication as Modbus server Yes Ves Communication as Modbus server Yes Ves Ves Communication atal Communication as Modbus server Yes Yes Yes Ves Ves Ves Ves Ves Ves Ves Ves Ves V	<ul> <li>PCS 7 configurable/integrated from version</li> </ul>	PCS 7 V7.1 SP2
Protocols  SIMATIC communication as Modbus server	Redundancy	
SIMATIC communication as Modbus server  • Communication as Modbus client • User data per job (of which consistent), max. 250 byte  Operating systems  Runs under operating system • Windows XP • Windows 7 Yes • Windows 7 Yes  Software  Runtime software  Target system  — ET 200S — ET 200pro — S7-300 — Yes; FW V3.2 or higher — S7-400 — WinAC — Suitable for other target system  PwinAC — Suitable for other target system  • Local data requirements • Local data requirements • FB length in RAM, max. • Multi-instance capable  Communication atala • Multiport • Cilent-server coupling • Implemented function codes • Cilent-server coupling • Implemented function codes • Single license (EL)  Configuration / programming / header	<ul> <li>Redundancy capability</li> </ul>	No
Communication as Modbus server Communication as Modbus client User data per job (of which consistent), max.  Departing systems  Runs under operating system  Windows XP Windows 7 Yes Windows 7 Yes  Windows 7  Software  Runtime software  Target system  ET 200S First 200pro First 200pro First 200pro Software  Software  Yes; FW V3.2 or higher First 200pro Software  VinAC Software  Ves; FW V3.2 or higher First 200pro Yes; FW V3.2 or higher First 200pro Yes; FW V3.2 or higher Yes; FW V3.2 or higher First 200pro Yes; FW V3.2 or higher First 200pro Yes; FW V3.2 or higher First 200pro Yes; FW V3.2 or higher Yes; FW V3.2 or higher First 200pro First	Protocols	
Communication as Modbus client  User data per job (of which consistent), max.  250 byte  Operating systems  Runs under operating system  Windows XP  Windows 7  Yes  Windows 7  Software  Runtime software  Target system  ET 200S  FT 200Pro  FT 200Pro  FS -300  FS -400  FS -400  Suitable for other target system  Pes: FW V3.2 or higher  SF -400  SF -800  SF -800  Wes: FW V3.2 or higher  SF -800  SF -800  FS -800  Wes: FW V6.0 or higher  No  Suitable for other target system  FB length in RAM, max.  Multi-instance capable  Communication data  Multiport  Multiport  SIMATIC S7 as master or slave  Implemented function codes  Authorization/licenses  Single license (EL)  Configuration / header  Configuration / programming / header	SIMATIC communication	
User data per job (of which consistent), max.  Deparating systems  Runs under operating system  Windows XP  Windows 7  Yes  Windows 7  Runtime software  Runtime software  Target system  ET 200S  ET 200Pro  ET 200Pro  Software  Yes; FW V3.2 or higher  FS 7-300  Yes; FW V3.2 or higher  Software  Yes; FW V3.2 or higher  Software  Yes; FW V3.2 or higher  Yes  Ordinary or higher  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	<ul> <li>Communication as Modbus server</li> </ul>	Yes
Runs under operating system  Windows XP Windows 7 Yes Windows 7  Software  Runtime software  Target system  ET 200S FET 200pro FST-300 FST-300 FST-400	<ul> <li>Communication as Modbus client</li> </ul>	Yes
Puntows XP  ● Windows XP  ● Windows 7  Software  Runtime software  Target system  — ET 200S  — ET 200pro  — ET 200pro  — S7-300  — S7-300  — S7-400  — S7-400  — WinAC  — Suitable for other target system  PE length in RAM, max.  ● HB length in RAM, max.  ● Multi-instance capable  Communication data  ● Multiport  ● Cleint-server coupling  ● implemented function codes  ● Single license (EL)  Authorization/licenses  ● Single license (EL)  Pes; Wizard for configuration support  Yes; Wizard  Yes; Wizard  Yes; Wizard  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	<ul> <li>User data per job (of which consistent), max.</li> </ul>	250 byte
Windows XP	Operating systems	
Windows 7  Software  Runtime software  Target system  — ET 200S — ET 200pro — S7-300 — S7-400 — S7-400 — WinAC — Suitable for other target system  Block  Local data requirements FB length in RAM, max. Multi-instance capable  Multi-instance capable  Multiport  Multiport  Client-server coupling implemented function codes  Authorization/licenses  Single license (EL)  Configuration / header  Wizard for configuration support  Ves; Wizard  Ves; FW V3.2 or higher  Yes; FW V6.0 or higher  No  Yes; FW V6.0 or higher  Yes; See: https://support.industry.siemens.com/cs/ww/en/view/104946406  No  Yes; See: https://support.industry.siemens.com/cs/ww/en/view/104946406  Single license capable  Yes  Communication data  Yes  Configuration odes  No  10, 20, 30, 40, 05, 06, 15, 16  Authorization/licenses  Single license (EL)  Yes  Configuration of header  Configuration of header	Runs under operating system	
Runtime software  Target system  - ET 200S - ET 200pro - ST-300 - ST-300 - ST-400 - WinAC - Suitable for other target system  Pes; FW V3.2 or higher  - ST-800 - Suitable for other target system  Block  Local data requirements FB length in RAM, max. Multi-instance capable  Communication data  Multiport Client-server coupling implemented function codes  Authorization/licenses Single license (EL)  Configuration / header  Configuration / programming / header	<ul> <li>Windows XP</li> </ul>	Yes
Runtime software  Target system	<ul><li>Windows 7</li></ul>	Yes
Target system	Software	
- ET 200S - ET 200pro - ET 200pro - S7-300 - S7-400 - Syr-400 - WinAC - Suitable for other target system  Block  Local data requirements FB length in RAM, max Multi-instance capable  Communication data  Multiport Client-server coupling implemented function codes  Authorization/licenses Single license (EL)  Configuration of header  Configuration software  Wizard for configuration support  Yes; FW V3.2 or higher Yes; FW V3.2 or hig	Runtime software	
	Target system	
- S7-300 Yes; FW V3.2 or higher - S7-400 Yes; FW V6.0 or higher - WinAC No - Suitable for other target system Yes; See: https://support.industry.siemens.com/cs/ww/en/view/104946406  Block  • Local data requirements 156 byte • FB length in RAM, max. 19 kbyte • Multi-instance capable Yes  Communication data  • Multiport Yes • Client-server coupling SIMATIC S7 as master or slave • implemented function codes 01, 02, 03, 04, 05, 06, 15, 16  Authorization/licenses • Single license (EL) Yes  configuration / header  Configuration software • Wizard for configuration support Yes; Wizard configuration / programming / header	— ET 200S	Yes; FW V3.2 or higher
- S7-400 - WinAC - Suitable for other target system  Pes; See: https://support.industry.siemens.com/cs/ww/en/view/104946406  Block  Local data requirements FB length in RAM, max. FM lutti-instance capable  Communication data  Multiport Client-server coupling FIMATIC S7 as master or slave FIMPLEMENT SIMATIC S7 as master or slave FIMELEMENT S1 as master S7 as master or slave FIMELEMENT S1 as master S1 as	— ET 200pro	Yes; FW V3.2 or higher
- WinAC - Suitable for other target system  Block  Local data requirements FB length in RAM, max. Multi-instance capable  Communication data  Multiport Client-server coupling implemented function codes  Authorization/licenses Single license (EL)  Configuration / header  Ves; See: https://support.industry.siemens.com/cs/ww/en/view/104946406	— S7-300	Yes; FW V3.2 or higher
— Suitable for other target system  Pes; See: https://support.industry.siemens.com/cs/ww/en/view/104946406  Block  Local data requirements FB length in RAM, max. Multi-instance capable  Communication data  Multiport Client-server coupling Find function codes  Indication of the description of the d	— S7-400	Yes; FW V6.0 or higher
Block  Local data requirements FB length in RAM, max. FB length in RAM, max. Multi-instance capable Yes  Communication data Multiport Client-server coupling SIMATIC S7 as master or slave implemented function codes O1, 02, 03, 04, 05, 06, 15, 16  Authorization/licenses Single license (EL) Yes  Configuration / header  Configuration software Wizard for configuration support System Service Support Yes; Wizard Configuration / programming / header	— WinAC	No
Local data requirements     FB length in RAM, max.     Multi-instance capable     Yes  Communication data     Multiport     Client-server coupling     implemented function codes     implemented function codes     Single license (EL)  Configuration / header  Configuration software     Wizard for configuration support  Yes yes  156 byte  19 kbyte  10	<ul> <li>Suitable for other target system</li> </ul>	Yes; See: https://support.industry.siemens.com/cs/ww/en/view/104946406
FB length in RAM, max.  Multi-instance capable  Yes  Communication data  Multiport  Client-server coupling  implemented function codes  Authorization/licenses  Single license (EL)  Yes  Configuration / header  Wizard for configuration support  Configuration / programming / header  19 kbyte  Yes  Yes  Yes  SIMATIC S7 as master or slave  01, 02, 03, 04, 05, 06, 15, 16  Yes  Yes  Yes  Ves  Ves  Configuration / header	Block	
Multi-instance capable  Communication data      Multiport      Client-server coupling      implemented function codes      Ot, 02, 03, 04, 05, 06, 15, 16  Authorization/licenses      Single license (EL)  Configuration / header  Configuration software      Wizard for configuration support  Configuration / programming / header  Yes  Yes  Yes  Yes; Wizard	<ul> <li>Local data requirements</li> </ul>	156 byte
Communication data  • Multiport  • Client-server coupling  • IMATIC S7 as master or slave  • implemented function codes  • O1, 02, 03, 04, 05, 06, 15, 16  Authorization/licenses  • Single license (EL)  Configuration / header  Configuration software  • Wizard for configuration support  configuration / programming / header	<ul> <li>FB length in RAM, max.</li> </ul>	19 kbyte
Multiport Client-server coupling SIMATIC S7 as master or slave implemented function codes O1, 02, 03, 04, 05, 06, 15, 16  Authorization/licenses Single license (EL) Yes  configuration / header  Configuration software Wizard for configuration support Yes; Wizard configuration / programming / header	Multi-instance capable	Yes
Client-server coupling  implemented function codes  O1, 02, 03, 04, 05, 06, 15, 16  Authorization/licenses  Single license (EL)  Configuration / header  Configuration software  Wizard for configuration support  configuration / programming / header  SIMATIC S7 as master or slave  01, 02, 03, 04, 05, 06, 15, 16  Yes  Yes  Yes  Yes  Wizard  Yes; Wizard	Communication data	
implemented function codes  01, 02, 03, 04, 05, 06, 15, 16  Authorization/licenses  Single license (EL)  Yes  configuration / header  Configuration software  Wizard for configuration support  configuration / programming / header	Multiport	Yes
Authorization/licenses  • Single license (EL)  configuration / header  Configuration software  • Wizard for configuration support  configuration / programming / header	Client-server coupling	SIMATIC S7 as master or slave
◆ Single license (EL)      Configuration / header  Configuration software      ◆ Wizard for configuration support      configuration / programming / header  Yes; Wizard	implemented function codes	01, 02, 03, 04, 05, 06, 15, 16
Configuration / header  Configuration software  • Wizard for configuration support  configuration / programming / header	Authorization/licenses	
Configuration software  • Wizard for configuration support  configuration / programming / header  Yes; Wizard	Single license (EL)	Yes
Wizard for configuration support     Yes; Wizard     configuration / programming / header	configuration / header	
configuration / programming / header	Configuration software	
	Wizard for configuration support	Yes; Wizard
December in the second	configuration / programming / header	
Programming language	Programming language	

— LAD	Yes	
— FBD	Yes	
— STL	Yes	
— SCL	Yes	
— CFC	Yes	
— GRAPH	Yes	
Configuration examples		
<ul> <li>STL example project</li> </ul>	Yes	
<ul> <li>CFC example project</li> </ul>	Yes	
Documentation		
Languages		
German	Yes; Electronic, included on CD	
• English	Yes; Electronic, included on CD	

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