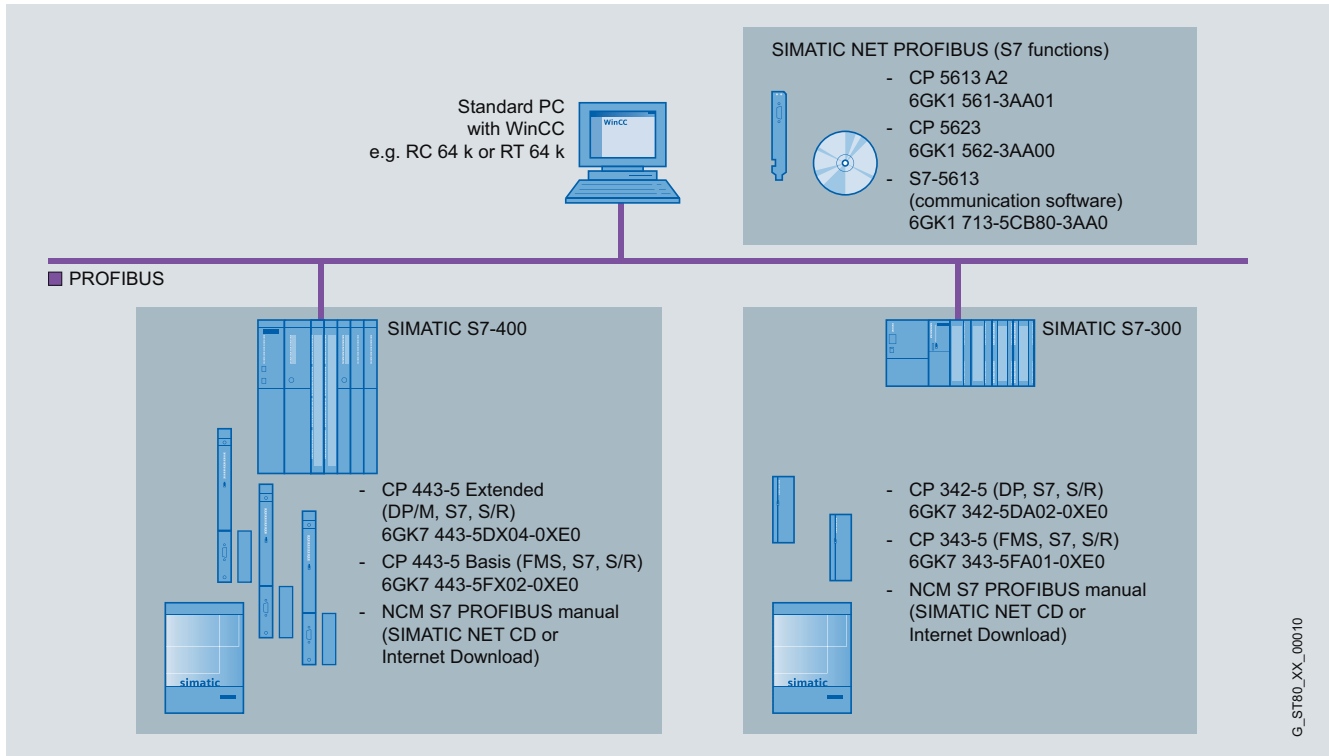


HMI Software SCADA system SIMATIC WinCC

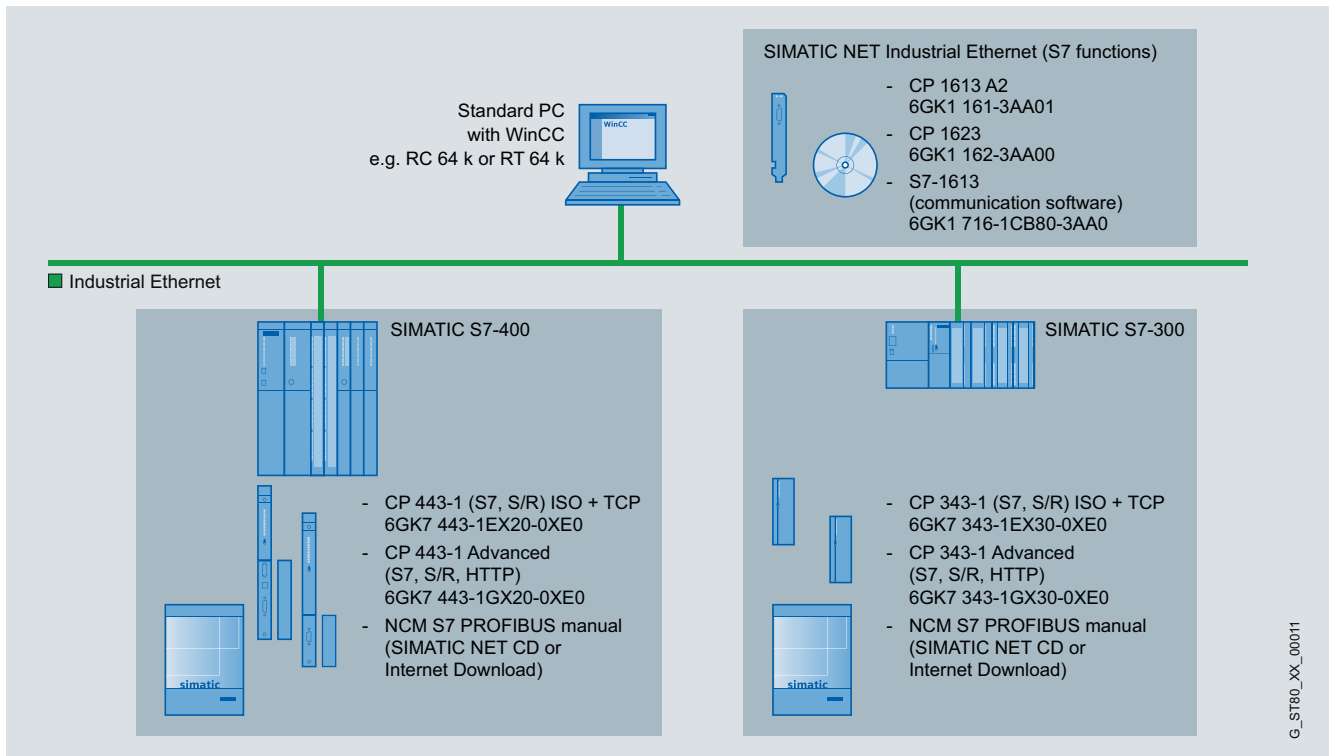
SIMATIC WinCC

Communications examples

4

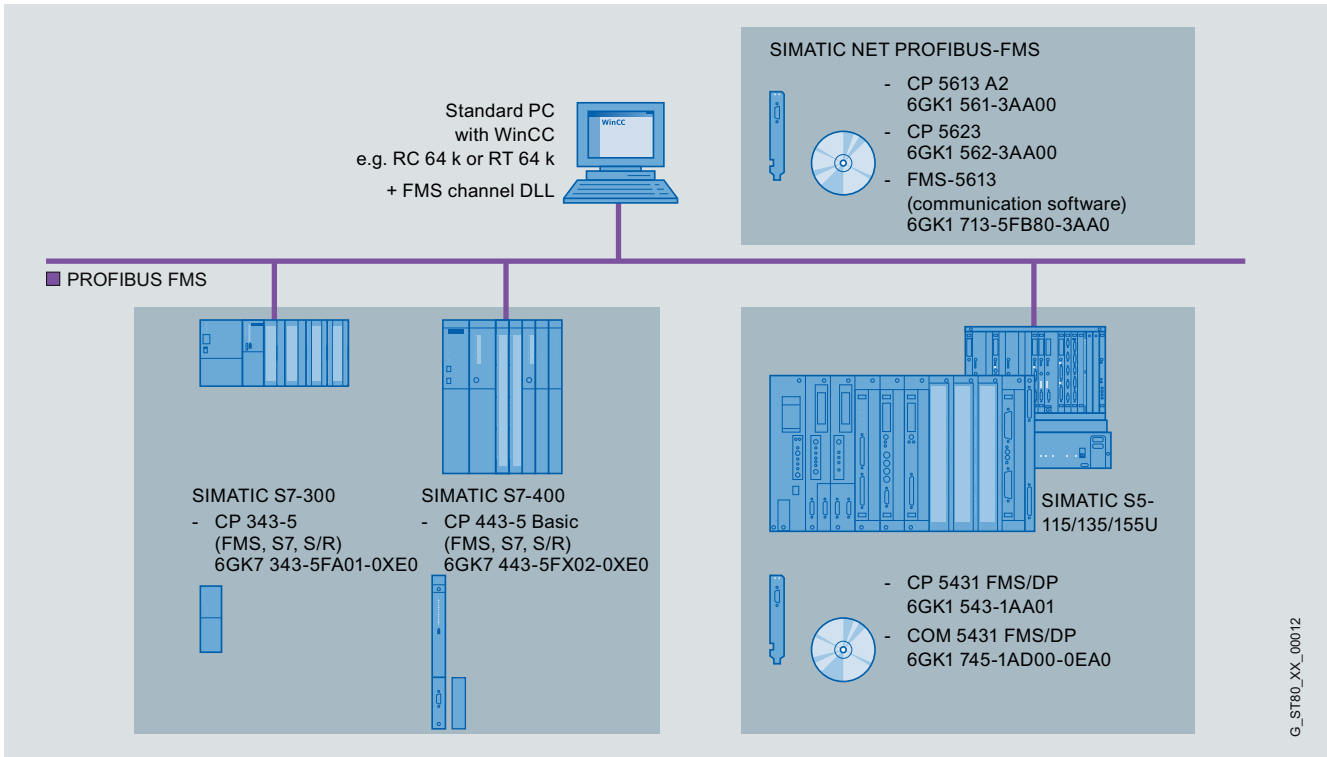


WinCC single-user system: PROFIBUS with S7 communication

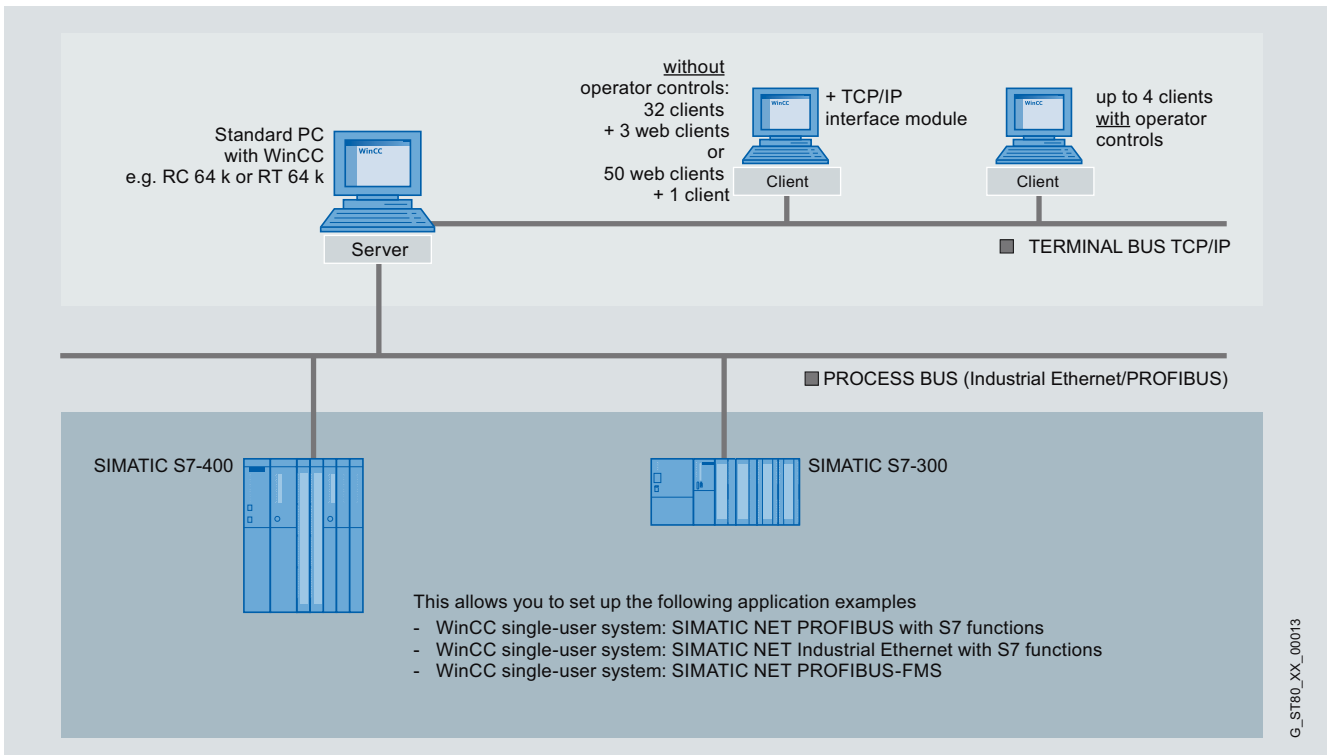


WinCC single-user system: Industrial Ethernet with S7 communication

Communications examples (continued)



WinCC single-user system: PROFIBUS FMS

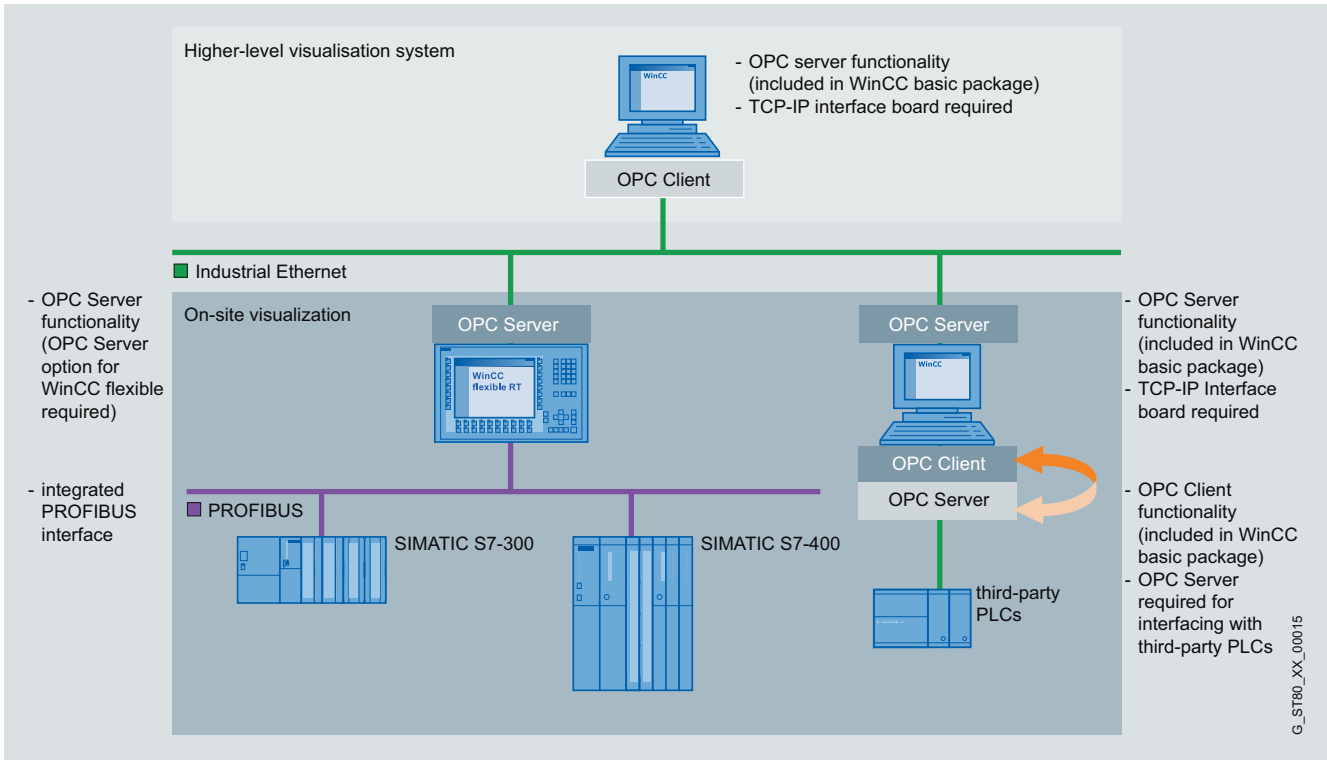


WinCC multi-user system with operable server

HMI Software SCADA system SIMATIC WinCC

SIMATIC WinCC

Communications examples (continued)



OPC coupling

Technical specifications

Type	SIMATIC WinCC V7.0 SP2	SIMATIC WinCC V6.2 SP3
Operating system	<ul style="list-style-type: none"> Windows 7 (32-bit) Ultimate, Business and Enterprise Windows XP Professional SP2/SP3 Windows 2003 Server SP2 and Windows 2003 Server R2 SP2 Windows 2008 Server SP2 	<ul style="list-style-type: none"> Windows XP Professional SP3, Windows 2000 Professional SP4, Windows Server 2003 SP2, Windows Server 2003 R2 SP2
PC hardware requirements		
Processor type ¹⁾		
• Minimum	Single-user station/server: Pentium 3, 1 GHz ²⁾ Central Archive Server: Pentium 4, 2.5 GHz Client: Pentium 3, 800 MHz ²⁾ WebClient/DataMonitor Client: Pentium III, 600 MHz ²⁾	Single-user station/server: Pentium III, 1 GHz Central Archive Server: Pentium 4, 2 GHz Client: Pentium III, 600 MHz
• Recommended	Single-user station/server: Pentium 4, 2.5 GHz ²⁾ Central Archive Server: Pentium 4 or Dual Core, 3 GHz Client: Pentium 4, 2 GHz ²⁾ WebClient/DataMonitor Client: Pentium III, 1 GHz	Single-user station/server: Pentium 4, 2 GHz Central Archive Server: Pentium 4, 2.5 GHz Client: Pentium III, 1 GHz WebClient/DataMonitor Client: Pentium III, 1 GHz
RAM		
• Minimum	Single-user station/server: 1 GB ²⁾ Central Archive Server: 2 GB Client: 512 MB ²⁾ WebClient/DataMonitor Client: 256 MB ²⁾	Single-user station: 512 MB, server: 1 GB Central Archive Server: 1 GB Client: 512 MB
• Recommended	Single-user station/server: 2 GB ²⁾ Central Archive Server: ≥ 2 GB Client: 1 GB ²⁾ WebClient/DataMonitor Client: 512 MB ²⁾	Single-user station: ≥ 1 GB, server: > 1 GB Central Archive Server: ≥ 2 GB Client: 512 MB WebClient/DataMonitor Client: 512 MB
Graphics card		
• Minimum	16 MB, 800 x 600 ²⁾	16 MB, 800 x 600
• Recommended	32 MB, 1280 x 1024 ²⁾	32 MB, 1280 x 1024
Hard disk		
• Minimum	Single-user station/server: 20 GB Client: 5 GB Central Archive Server: 40 GB WebClient/DataMonitor Client: 5 GB	Single-user station/server: 20 GB Client: 5 GB Central Archive Server: 40 GB WebClient/DataMonitor Client: 5 GB
• Recommended	Single-user station/server: 80 GB Client: 20 GB Central Archive Server: 2 x 80 GB WebClient/DataMonitor Client: 10 GB	Single-user station/server: 80 GB Client: 20 GB Central Archive Server: 2 x 80 GB WebClient/DataMonitor Client: 10 GB
• Hard disk (free memory space for installation)		
- Minimum	Server: >1.5 GB Client: 1.5 GB	Server: 1.5 GB Client: 1 GB
- Recommended	Server: >10 GB Client: >1.5 GB	Server: >10 GB Client: >1.5 GB
CD ROM/DVD ROM/diskette drive/USB interface	for software installation	for software installation

1) An AMD system with comparable performance can also be used

2) Hardware requirements when using Microsoft XP Professional

HMI Software

SCADA system SIMATIC WinCC

SIMATIC WinCC

Technical specifications (continued)

Type	SIMATIC WinCC
Functionality/quantity structure	
Number of messages	150,000
• Message text (number of characters)	10 x 256
• Alarm log	> 500,000 messages ¹⁾
• Process values per message	10
• Constant load of messages, max.	Central Archive Server: 100/s Server/single-user station: 10/s
• Message burst, max.	Server/single-user station: 2,000/10 s every 5 min
Archives	
• Archive data points	Max. 120,000 per server ²⁾
• Archive types	Short-term archive with and without long-term archiving
• Data storage format	Microsoft SQL Server 2005
• Measured values per second, max.	Server/single-user station: 5,000/s
User archive	
• Archives and views	500 each
• Product consisting of data record and column per user archive	320,000
• Fields per user archive	500
Graphics system	
• Number of screens	System-limited ¹⁾
• Number of objects per screen	System-limited ¹⁾
• Number of controllable fields per screen	System-limited ¹⁾

¹⁾ Dependent on the available storage space

²⁾ Dependent on the number of licensed archive variables

³⁾ Dependent on number of licensed PowerTags

⁴⁾ Asian versions for Version 7 SP1 or higher

⁵⁾ The number of variables per report is dependent on process communication performance

Type	SIMATIC WinCC
PowerTags	256 K ³⁾
Trends	
• Trend views per image	25
• Trends per trend view	80
User administration	
• User groups	128
• Number of users	128
• Authorization groups	999
Configuration languages	5 European (Eng., Fr., Ger., It., Sp.), 4 Asian (simpl.+trad. Chi/Kor/Jpn) ⁴⁾
Protocols	
• Message sequence reports (simultaneously)	1 per server/single-user station
• Message archive reports (simultaneously)	3
• User reports	System-limited ¹⁾
• Report lines per group	66
• Variables per report	300 ⁵⁾
Multi-user system	
• Server	12
• Clients for server with operator station	4
• Clients for server without operator station	32 clients + 3 WebClients or 50 WebClients + 1 client

Ordering data	Order No.	Order No.
<p>SIMATIC WinCC system software V7.0 SP2</p> <p>Runtime packages on DVD</p> <p>Language/script versions: Ge, En, Fr, It, Sp; with license for</p> <ul style="list-style-type: none"> • WinCC RT Client • 128 PowerTags (RT 128) • 512 PowerTags (RT 512) • 2048 PowerTags (RT 2048) • 8192 PowerTags (RT 8192) • 65536 PowerTags (RT 65536) • 102400 PowerTags (RT 102400) • 153600 PowerTags (RT 153600) • 262144 PowerTags (RT 262144) <p>Incl. 512 archive tags each</p>	<p>6AV6 381-2CA07-0AX0</p> <p>6AV6 381-2BC07-0AX0</p> <p>6AV6 381-2BD07-0AX0</p> <p>6AV6 381-2BE07-0AX0</p> <p>6AV6 381-2BH07-0AX0</p> <p>6AV6 381-2BF07-0AX0</p> <p>6AV6 381-2BJ07-0AX0</p> <p>6AV6 381-2BK07-0AX0</p> <p>6AV6 381-2BL07-0AX0</p>	<p>SIMATIC WinCC V7.0 Power Packs</p> <p>For upgrading from:</p> <p>Runtime packages</p> <ul style="list-style-type: none"> • 128 to 512 PowerTags • 128 to 2048 PowerTags • 128 to 8192 PowerTags • 128 to 65536 PowerTags • 512 to 2048 PowerTags • 512 to 8192 PowerTags • 512 to 65536 PowerTags • 2048 to 8192 PowerTags • 2048 to 65536 PowerTags • 8192 to 65536 PowerTags • 65536 to 102400 PowerTags • 102400 to 153600 PowerTags • 153600 to 262144 PowerTags <p>Complete packages</p> <ul style="list-style-type: none"> • 128 to 512 PowerTags • 128 to 2048 PowerTags • 128 to 8192 PowerTags • 128 to 65536 PowerTags • 512 to 2048 PowerTags • 512 to 8192 PowerTags • 512 to 65536 PowerTags • 2048 to 8192 PowerTags • 2048 to 65536 PowerTags • 8192 to 65536 PowerTags • 65536 to 102400 PowerTags • 102400 to 153600 PowerTags • 153600 to 262144 PowerTags
<p>Complete packages on DVD</p> <p>Language versions: Ge, En, Fr, It, Sp; with license for</p> <ul style="list-style-type: none"> • WinCC RC Client • 128 PowerTags (RC 128) • 512 PowerTags (RC 512) • 2048 PowerTags (RC 2048) • 8192 PowerTags (RC 8192) • 65536 PowerTags (RC 65536) • 102400 PowerTags (RC 102400) • 153600 PowerTags (RC 153600) • 262144 PowerTags (RC 262144) 	<p>6AV6 381-2CB07-0AX0</p> <p>6AV6 381-2BM07-0AX0</p> <p>6AV6 381-2BN07-0AX0</p> <p>6AV6 381-2BP07-0AX0</p> <p>6AV6 381-2BS07-0AX0</p> <p>6AV6 381-2BQ07-0AX0</p> <p>6AV6 381-2BT07-0AX0</p> <p>6AV6 381-2BU07-0AX0</p> <p>6AV6 381-2BV07-0AX0</p>	<p>6AV6 371-2BD07-0AX0</p> <p>6AV6 371-2BE07-0AX0</p> <p>6AV6 371-2BK07-0AX0</p> <p>6AV6 371-2BF07-0AX0</p> <p>6AV6 371-2BG07-0AX0</p> <p>6AV6 371-2BL07-0AX0</p> <p>6AV6 371-2BH07-0AX0</p> <p>6AV6 371-2BM07-0AX0</p> <p>6AV6 371-2BJ07-0AX0</p> <p>6AV6 371-2BN07-0AX0</p> <p>6AV6 371-2BP07-0AX0</p> <p>6AV6 371-2BQ07-0AX0</p> <p>6AV6 371-2BR07-0AX0</p>
<p>SIMATIC WinCC system software V7.0 SP2 ASIA</p> <p>Runtime packages on DVD</p> <p>Language/script versions: En, Chs, Cht, Kor, Jpn; with license for</p> <ul style="list-style-type: none"> • WinCC RT Client • 128 PowerTags (RT 128) • 512 PowerTags (RT 512) • 2048 PowerTags (RT 2048) • 8192 PowerTags (RT 8192) • 65536 PowerTags (RT 65536) • 102400 PowerTags (RT 102400) • 153600 PowerTags (RT 153600) • 262144 PowerTags (RT 262144) <p>Incl. 512 archive tags each</p>	<p>6AV6 381-2CA07-0AV0</p> <p>6AV6 381-2BC07-0AV0</p> <p>6AV6 381-2BD07-0AV0</p> <p>6AV6 381-2BE07-0AV0</p> <p>6AV6 381-2BH07-0AV0</p> <p>6AV6 381-2BF07-0AV0</p> <p>6AV6 381-2BJ07-0AV0</p> <p>6AV6 381-2BK07-0AV0</p> <p>6AV6 381-2BL07-0AV0</p>	<p>SIMATIC WinCC V7.0 Archive</p> <ul style="list-style-type: none"> • 1500 archives • 5000 archives • 10000 archives • 30000 archives • 80000 archives • 120000 archives
<p>Complete packages on DVD</p> <p>Language versions: En, Chs, Cht, Kor, Jpn; with license for</p> <ul style="list-style-type: none"> • WinCC RC Client • 128 PowerTags (RC 128) • 512 PowerTags (RC 512) • 2048 PowerTags (RC 2048) • 8192 PowerTags (RC 8192) • 65536 PowerTags (RC 65536) • 102400 PowerTags (RC 102400) • 153600 PowerTags (RC 153600) • 262144 PowerTags (RC 262144) 	<p>6AV6 381-2CB07-0AV0</p> <p>6AV6 381-2BM07-0AV0</p> <p>6AV6 381-2BN07-0AV0</p> <p>6AV6 381-2BP07-0AV0</p> <p>6AV6 381-2BS07-0AV0</p> <p>6AV6 381-2BQ07-0AV0</p> <p>6AV6 381-2BT07-0AV0</p> <p>6AV6 381-2BU07-0AV0</p> <p>6AV6 381-2BV07-0AV0</p>	<p>SIMATIC WinCC V7.0 Archive Power Packs</p> <p>For upgrading archiving from</p> <ul style="list-style-type: none"> • 1500 to 5000 archive tags • 5000 to 10000 archive tags • 10000 to 30000 archive tags • 30000 to 80000 archive tags • 80000 to 120000 archive tags
<p>Clients</p> <ul style="list-style-type: none"> • RT Client ASIA • RT Client • RC Client ASIA • RC Client 	<p>6AV6 381-2CA07-0AV0</p> <p>6AV6 381-2CA07-0AX0</p> <p>6AV6 381-2CB07-0AV0</p> <p>6AV6 381-2CB07-0AX0</p>	<p>6AV6 371-1DQ17-0AX0</p> <p>6AV6 371-1DQ17-0BX0</p> <p>6AV6 371-1DQ17-0CX0</p> <p>6AV6 371-1DQ17-0EX0</p> <p>6AV6 371-1DQ17-0GX0</p> <p>6AV6 371-1DQ17-0JX0</p>
		<p>6AV6 371-1DQ17-0AB0</p> <p>6AV6 371-1DQ17-0BC0</p> <p>6AV6 371-1DQ17-0CE0</p> <p>6AV6 371-1DQ17-0EG0</p> <p>6AV6 371-1DQ17-0GJ0</p>

Bundles with SIMATIC HMI IPC477C and WinCC V7.0 SP1

The SIMATIC HMI IPC477C with preinstalled WinCC can be found under HMI IPC477C or under Packages.