Data Sheet

DAKSpro V9.10
Last modified: January 25, 2024

Performance feature/ Specification	DAKSpro 200 based on DAKS-200 hardware	DAKSpro 300 based on DAKS-300 hardware	DAKSpro 400 based on DAKS-400 hardware	DAKSpro as vDAKS
Housing/ Dimensions	19" hardware (1U) for rack mounting	19" hardware (3U) for rack mounting or as a tabletop unit	19" hardware (2U) for rack mounting or as a tabletop unit	
Basic server features	 Robust process computer architecture in low-power design ("Green IT") Extensive server self-monitoring incl. fault messages Very high availability with MTBF values of over 400,000 hours No failure-prone rotating components (no hard disks, no fans) 			
	For DAKSpro 200/300 differently/additionally: Pluggable memory card for short repair times (MTTR)			
	For DAKSpro 300 differently/additionally: In conjunction with ISDN interfaces and SMS modem: emergency operation possible in the event of data network failure			ures.
	 For DAKSpro 400 differently/additionally: Highest possible functional security through extensive server selfmonitoring incl. processor-independent error message Highest possible data security due to 'Industrial Grade' SSD hard drive Meets even the highest security requirements through extended hardware support: Certificates are stored encrypted within the processor Processor supports 'Secure Boot', i.e. only a signed "U-Boot" can be loaded. The signed "U-Boot" only loads a signed operating system The signed operating system only loads signed applications Access to the SSD hard disk is password protected AES256 encryption of the data on the SSD hard drive No data loss in case of hardware defect due to replaceable SSD for short repair times 			Now also available as VMware without specific hardware features.
Operating system(s)	Dual-processor system: ■ Core 1 with Linux™ operating system ■ Core 2 with µClinux™ operating system	Multiprocessor system: ■ Main computer with Linux™ operating system	Multicore processor system ■ 64bit ARM Cortex with Linux™ operating system	also available as
Ethernet LAN ports	2x 10/100BASE-T	2x 10/100/1000BASE-T (GbE) with channel bonding		Now
ESPA-X based LAN data interfaces optionally unencrypted or TLS encrypted	Up to 5x in total, e.g. to connect: the Mail-to-Phone server DAKS-Satellite peripheral devices, each with 1 ESPA4.4.4 serial interface, 16 digital inputs and 8+1 digital outputs	 Up to 60x in total, e.g. to connect: the Mail-to-Phone server DAKS-Satellite peripheral devices, each with 1 ESPA4.4.4 serial interface, 16 digital inputs and 8+1 digital outputs 		
LAN data interface to DAKS Mobile Clients	Support for up to 3,000 DAKSConnection to the clients via a	Mobile Clients (DMC) a proxy server (usually in the DMZ)		



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Other LAN data interfaces and protocols	 TR500 to a host system (UDP-based, unencrypted) xLink-100e to a host system (TCP-based, unencrypted) SNMP to an SNMP manager TNPP to external paging systems SMPP to external UMTS gateways UCP or SMPP to a Short Message Service Center (SMSC) Raw / Port 9001 to system printer VCON protocol to the VCON service terminal for configurations, downloads and traces Virtual serial interface with RegEx functionality (TCP socket) 			
Serial ports galvanically isolated	2x (on the device): RS232 or RS422	Up to 8x (via SIO-41 module x2): RS232, RS422 or RS485	4x (on the device): RS232, RS422 or RS485	
Supported serial data interfaces	 ESPA 4.4.4, optionally with callback functionality TAP, optionally with callback functionality VIT1, FTI1 DUST3964R for Simatic S5 SIGMASYS coupling via SM port Modem (analog, ISDN or radio) 			
USB host ports e.g. for contact I/O, system printer, radio modem	2x (on the device)	2x (via SDU-42 module)	2x (on the device)	lware features
Digital inputs for process activations and status changeovers	Up to 32/64 (monitored/ non-monitored) via IOG-03A gateway (USB)	 Up to 32 (monitored) via DIO-41 module (x2) Up to 32/64 (monitored/ non-monitored) via IOG-03A gateway (USB) 	Up to 32/64 (monitored/non- monitored), either via IOG-03A gateway (USB) or via IOG-11A gateway (RS485)	out specific hard
Digital outputs for process, system, fault or last-error messages	 Up to 16 via IOG-03 gateway (USB) 1 special relay output (on the device) 	 Up to 16+2 via DIO-41 module (x2) Up to 16 via IOG-03 gateway (USB) 1 special relay output via SDU-42 module 	 Up to 16 via IOG-03A gateway (USB) or via IOG-11A gateway (RS485) 1 special relay output (on the device) 	ble as VMware without specific hardware features
MARS-I interface	-	-	1x (on the device)	availa
Audio-I/O (AF) ports on the server	-	Up to 8 IN and 8 OUT via AIO-41 module (x2), e.g. for: playback of external audio sources recording conferences direct control of PA systems	-	Now also availa
Audio-I/O via DAKS-AudioConnect	Registered to the PBX	Registered to the PBX or directly to DAKSpro		
DCF77 (radio clock) synchronization* *signal only receivable within Europe	Optional, via DCF77 port on the device (additional hardware required)	Optional, via DCF77 port on the SDU-42 module (additional hardware required)	Optional, via DCF77 port on the device (additional hardware required)	
Power supply	 Two simultaneously (redundantly) usable built-in power supply units: PSU 1 from 115/230 VAC PSU 2 from 24/48 VDC Optional power supply from 2x 115/230 VAC via external professional AC/DC converter 	 Optionally from 115/230 VAC or from 48 VDC (= worldwide usability) Optional redundant power supply from two PSUs (AC/AC, DC/DC or AC/DC) 		

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Power consumption	 With AC power supply: approx. 25 watts With DC power supply: approx. 20 watts 	Depending on expansion: typically around 30 watts	Maximum 33 watts	
Voice processing	 Channel-specific announcement recording, audible tone and DTMF generation Variable uni- and bidirectional voice interconnections incl. conferences (without hardware limitation on the number of conferences and conference participants) Direct recording and playback of composed announcements, each consisting of up to 16 partial announcements 			
Voice memory	1 hour 2 hours			
Voice communication	5 to 30 parallel channels	5 to 480 parallel channels	5 to 500 parallel channels	fic hardware features.
	_	ISDN trunking (S_0, S_{2M}) with QSIG or CorNet-NQ D-channel protocol and channel-specific inband DTMF detection	_	
	VoIP trunking with SIP or SIP-Q signaling, unencrypted or encrypted (SRTP; SIP over TLS, SDES)	VoIP trunking with SIP or SIP-Q signaling, unencrypted or up to 60-channel encrypted (SRTP; SIP over TLS, SDES)	VoIP trunking with SIP or SIP-Q signaling, unencrypted or up to 500-channel encrypted (SRTP; SIP over TLS, SDES)	
	 Voice communication with a VoIP sub-system (e.g. a call system in a hospital) Registrar and switch for SIP phones or DAKS-AudioConnect devices registered directly to DAKSpro Support for geo-separation and OpenScape Voice/Branch configurations Codec: 64 kbit/s G.711 A-law or μ-law 			Now also available as VMware without specific hardware features.
Special telephony features with Unify OpenScape 4000 using CorNet-NQ or SIP-Q special features in connection with other TC systems on request	 Variable ringing of the dialed phones: normal call signaling urgent call signaling (typical application: calls from external) alarm call signaling ("emergency call") In case of busy subscribers: intrusion or emergency intrusion with prior neutral announcement forced disconnect of ongoing calls call waiting In case of busy connecting paths: automatic release emergency intrusion with prior neutral announcement Ignore call forwarding or redirection, e.g. to prevent voice mail activation Ignore call pickup groups Direct reaching of the boss in a boss-secretary setup Break through a Do Not Disturb (DND) In conjunction with HFA telephones (wired or DECT): 			

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SMS dispatch	 Via GSM-SMS radio modem (connection via USB or serial) Via TCP/IP with UCP or SMPP protocol via Short Message Service Center (SMSC) or UMTS gateway 			
System printer interface	Spooled; optionally connected via LAN or USB; printer protocol: Generic Printer Interface			atures.
Supported languages	German, English, French (user interfaces, output texts and announcements)			cific hardware fe
Operating temperature	+5°C to +35°C (+41°F to +95°F)			
Storage temperature	-20°C to +70°C (-4°F to +158°F)			out spe
Rel. humidity	5% to 80% (non-condensing)			with
Certifications	UL, FCC and CE FCC and CE		FCC and CE	ware
National approvals country codes acc. to ISO 3166	AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK Countries outside the EU: AU, CA, CH, GB, IN, MY, NZ, SG, TH, TR, US		 All EU countries: AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK Countries outside the EU: AU, CA, CH, CO, GB, HK, ID, ME, MK, MY, NZ, PA, PH, RS, SG*, TR, US *only available as an industrial product in Singapore 	Now also available as VMware without specific hardware features.

Further Information

For additional information on DAKSpro V9.10, please refer to our product info flyer on DAKSpro and its applications, the flyer 'DAKSpro V9.10 Innovations', and our website.

Note: Upgrades of older DAKSpro systems are always performed based on the price list items in effect at the time of the upgrade.



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