6ES7313-5BG04-0AB0

Data sheet



SIMATIC S7-300, CPU 313C, Compact CPU with MPI, 24 DI/16 DO, 4 AI, 2 AO, 1 Pt100, 3 high-speed counters (30 kHz), Integr. power supply 24 V DC, work memory 128 KB, Front connector (2x 40-pole) and Micro Memory Card required

General information	
HW functional status	01
Firmware version	V3.3
Engineering with	
Programming package	STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	Miniature circuit breaker, type C; min. 2 A; miniature circuit breaker type B, min. 4 A
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Repeat rate, min.	1 s
Load voltage L+	
Digital inputs	
— Rated value (DC)	24 V
 Reverse polarity protection 	Yes
Digital outputs	
— Rated value (DC)	24 V
 Reverse polarity protection 	No
Input current	
Current consumption (rated value)	650 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	5 A
l²t	0.7 A ² ·s
Digital inputs	
from load voltage L+ (without load), max.	80 mA
Digital outputs	
 from load voltage L+, max. 	50 mA
Power loss	
Power loss, typ.	12 W
Memory	
Work memory	
• integrated	128 kbyte
• expandable	No
Load memory	
• Plug-in (MMC)	Yes

 Plug-in (MMC), max. 	8 Mbyte
Data management on MMC (after last)	10 y
programming), min.	,
Backup	
present	Yes; Guaranteed by MMC (maintenance-free)
without battery	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.07 μs
for word operations, typ.	0.15 µs
for fixed point arithmetic, typ.	0.2 μs
for floating point arithmetic, typ.	0.72 μs
CPU-blocks	
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used.
DB	
Number, max.	1 024; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
Number, max.	see instruction list
Size, max.	64 kbyte
 Number of free cycle OBs 	1; OB 1
 Number of time alarm OBs 	1; OB 10
 Number of delay alarm OBs 	2; OB 20, 21
Number of cyclic interrupt OBs	4; OB 32, 33, 34, 35
 Number of process alarm OBs 	1; OB 40
 Number of startup OBs 	1; OB 100
 Number of asynchronous error OBs 	4; OB 80, 82, 85, 87
Number of synchronous error OBs	2; OB 121, 122
Nesting depth	
per priority class	16
additional within an error OB	4
Counters, timers and their retentivity	
S7 counter	
Number	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	Voc
• present	Yes SFB
• Type	
Number S7 times	Unlimited (limited only by RAM capacity)
S7 times	256
Number Potentivity	256
Retentivity	Von
— adjustable — lower limit	Yes 0
— upper limit	255
— preset	No retentivity
Time range	

— lower limit	10 ms
— upper limit	9 990 s
IEC timer	0 000 0
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	64 kbyte
Flag	o i nojto
• Size, max.	256 byte
Retentivity available	Yes; MB 0 to MB 255
Retentivity preset	MB 0 to MB 15
Number of clock memories	8; 1 memory byte
Data blocks	
Retentivity adjustable	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	
per priority class, max.	32 kbyte; Max. 2048 bytes per block
Address area	
I/O address area	
• Inputs	1 024 byte
Outputs	1 024 byte
of which distributed	
— Inputs	none
— Outputs	none
Process image	
• Inputs	1 024 byte
• Outputs	1 024 byte
Inputs, adjustable	1 024 byte
Outputs, adjustable	1 024 byte
Inputs, default	128 byte
Outputs, default	128 byte
Default addresses of the integrated channels	
— Digital inputs	124.0 to 126.7
— Digital outputs	124.0 to 125.7
— Analog inputs	752 to 761
— Analog outputs	752 to 755
Digital channels	
• Inputs	1 016
— of which central	1 016
Outputs	1 008
— of which central	1 008
Analog channels	
• Inputs	253
— of which central	253
Outputs	250
— of which central	250
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	
• integrated	none
• via CP	4
Number of operable FMs and CPs (recommended)	
• FM	8
• CP, PtP	8
• CP, LAN	6
Rack	
• Racks, max.	4
Modules per rack, max.	8; In rack 3 max. 7
- modulos por raon, max.	o, in add o man i

Time of day	
Clock	
Hardware clock (real-time)	Yes
retentive and synchronizable	Yes
Backup time	6 wk; At 40 °C ambient temperature
Deviation per day, max.	10 s; Typ.: 2 s
Behavior of the clock following POWER-ON	Clock continues running after POWER OFF
Behavior of the clock following expiry of backup	the clock continues at the time of day it had when power was switched
period	off
Operating hours counter	
• Number	1
Number/Number range	0
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1 h
• retentive	Yes; Must be restarted at each restart
Clock synchronization	
• supported	Yes
• to MPI, master	Yes
• to MPI, slave	Yes
• in AS, master	Yes
• in AS, slave	No
Digital inputs	
Number of digital inputs	24
of which inputs usable for technological functions	12
integrated channels (DI)	24
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	24
— up to 60 °C, max.	12
vertical installation	
— up to 40 °C, max.	12
Input voltage	
Rated value (DC)	24 V
● for signal "0"	-3 to +5V
• for signal "1"	+15 to +30 V
Input current	
• for signal "1", typ.	8 mA
Input delay (for rated value of input voltage)	
for standard inputs	V 04/00/0/45 6:
— parameterizable	Yes; 0.1 / 0.3 / 3 / 15 ms (You can reconfigure the input delay of the standard inputs during program runtime. Please note that under certain circumstances your newly set filter time may not be effective until the next filter cycle.)
— Rated value	3 ms
for technological functions	
— at "0" to "1", max.	16 μs; Minimum pulse width/minimum pause between pulses at maximum counting frequency
Cable length	
• shielded, max.	1 000 m; 100 m for technological functions
• unshielded, max.	600 m; for technological functions: No
for technological functions	
— shielded, max.	100 m; at maximum count frequency
— unshielded, max.	not allowed
Digital outputs	
Number of digital outputs	16
of which high-speed outputs	4; Notice: You cannot connect the fast outputs of your CPU in parallel
integrated channels (DO)	16
Short-circuit protection	Yes; Clocked electronically
Response threshold, typ.	1 A

Limitation of industive shutdown voltage to	1 + (48 \/)
Limitation of inductive shutdown voltage to	_ L+ (-48 V)
Controlling a digital input	Yes
Switching capacity of the outputs on lamp load, max.	5 W
	3 VV
Load resistance range	48 Ω
lower limit upper limit	48 Ω 4 kΩ
upper limit	4 KΩ
Output voltage	1. (0.0)()
• for signal "1", min.	L+ (-0.8 V)
Output current	500 mA
• for signal "1" rated value	500 mA
• for signal "1" permissible range, min.	5 mA
• for signal "1" permissible range, max.	0.6 A
• for signal "1" minimum load current	5 mA
• for signal "0" residual current, max.	0.5 mA
Parallel switching of two outputs	
• for uprating	No
for redundant control of a load	Yes
Switching frequency	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	100 Hz
of the pulse outputs, with resistive load, max.	2.5 kHz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	3 A
— up to 60 °C, max.	2 A
vertical installation	
— up to 40 °C, max.	2 A
Cable length	
shielded, max.	1 000 m
• unshielded, max.	600 m
Analog inputs	
Number of analog inputs	4
 For voltage/current measurement 	4
 For resistance/resistance thermometer 	1
measurement	
integrated channels (AI)	5; 4x current/voltage, 1x resistance
permissible input voltage for current input (destruction limit), max.	5 V; Permanent
permissible input voltage for voltage input (destruction limit), max.	30 V; Permanent
permissible input current for voltage input (destruction limit), max.	0.5 mA; Permanent
	50 mA; Permanent
permissible input current for current input (destruction limit), max.	
	400 Hz
limit), max.	400 Hz 3.3 V
limit), max. Electrical input frequency, max.	
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type	3.3 V
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ.	3.3 V 1.25 mA
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable	3.3 V 1.25 mA
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges	3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges Voltage	3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin Yes; ±10 V / 100 kΩ; 0 V to 10 V / 100 kΩ
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges • Voltage • Current	3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin Yes; ± 10 V / ± 100 k Ω ; 0 V to 10 V / ± 100 k Ω Yes; ± 20 mA / ± 100 Ω ; 0 mA to 20 mA / ± 100 Ω ; 4 mA to 20 mA / ± 100 Ω
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges • Voltage • Current • Resistance thermometer • Resistance	3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin Yes; ± 10 V / 100 k Ω ; 0 V to 10 V / 100 k Ω Yes; ± 20 mA / 100 Ω ; 0 mA to 20 mA / 100 Ω ; 4 mA to 20 mA / 100 Ω Yes; Pt 100 / 10 M Ω
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges • Voltage • Current • Resistance thermometer	3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin Yes; ± 10 V / 100 k Ω ; 0 V to 10 V / 100 k Ω Yes; ± 20 mA / 100 Ω ; 0 mA to 20 mA / 100 Ω ; 4 mA to 20 mA / 100 Ω Yes; Pt 100 / 10 M Ω
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges Voltage Current Resistance thermometer Resistance Input ranges (rated values), voltages	3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin Yes; ± 10 V / 100 k Ω ; 0 V to 10 V / 100 k Ω Yes; ± 20 mA / 100 Ω ; 0 mA to 20 mA / 100 Ω ; 4 mA to 20 mA / 100 Ω Yes; Pt 100 / 10 M Ω Yes; 0 Ω to 600 Ω / 10 M Ω
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges • Voltage • Current • Resistance thermometer • Resistance Input ranges (rated values), voltages • 0 to +10 V — Input resistance (0 to 10 V)	3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin Yes; ± 10 V / 100 k Ω ; 0 V to 10 V / 100 k Ω Yes; ± 20 mA / 100 Ω ; 0 mA to 20 mA / 100 Ω ; 4 mA to 20 mA / 100 Ω Yes; Pt 100 / 10 M Ω Yes; 0 Ω to 600 Ω / 10 M Ω
limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges • Voltage • Current • Resistance thermometer • Resistance Input ranges (rated values), voltages • 0 to +10 V	3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin Yes; ± 10 V / 100 k Ω ; 0 V to 10 V / 100 k Ω Yes; ± 20 mA / 100 Ω ; 0 mA to 20 mA / 100 Ω ; 4 mA to 20 mA / 100 Ω Yes; Pt 100 / 10 M Ω Yes; 0 Ω to 600 Ω / 10 M Ω

Input registance (0 to 20 mA)	100 Ω
— Input resistance (0 to 20 mA)	
• -20 mA to +20 mA	Yes
— Input resistance (-20 mA to +20 mA)	100 Ω
• 4 mA to 20 mA	Yes
— Input resistance (4 mA to 20 mA)	100 Ω
Input ranges (rated values), resistance thermometer	Voc
• Pt 100	Yes 10 MΩ
— Input resistance (Pt 100)	0 10/102
Input ranges (rated values), resistors	V
• 0 to 600 ohms	Yes
— Input resistance (0 to 600 ohms)	10 ΜΩ
Thermocouple (TC)	
Temperature compensation	A)
— parameterizable	No
Characteristic linearization	
parameterizable	Yes; by software
— for resistance thermometer	Pt 100
Cable length	
• shielded, max.	100 m
Analog outputs	
Number of analog outputs	2
integrated channels (AO)	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	55 mA
Current output, no-load voltage, max.	14 V
Output ranges, voltage	
• 0 to 10 V	Yes
• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	100
for voltage output two-wire connection	Yes; Without compensation of the line resistances
for voltage output four-wire connection	No
for current output two-wire connection	Yes
Load impedance (in rated range of output)	Tes
	410
with voltage outputs, min.	1 kΩ
with voltage outputs, capacitive load, max.	0.1 μF
with current outputs, max.	300 Ω
with current outputs, inductive load, max.	0.1 mH
Destruction limits against externally applied voltages and cur	
 Voltages at the outputs towards MANA 	16 V; Permanent
Current, max.	50 mA; Permanent
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Measurement principle	Actual value encryption (successive approximation)
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	12 bit
 Integration time, parameterizable 	Yes; 16.6 / 20 ms
 Interference voltage suppression for interference frequency f1 in Hz 	50 / 60 Hz
Time constant of the input filter	0.38 ms
 Basic execution time of the module (all channels released) 	1 ms
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	12 bit
Conversion time (per channel)	1 ms
- conversion unic (per chamile)	T IIIV

0.48	
Settling time	0.0
• for resistive load	0.6 ms
for capacitive load	1 ms
for inductive load	0.5 ms
Encoder	
Connection of signal encoders	
 for voltage measurement 	Yes
 for current measurement as 2-wire transducer 	Yes; with external supply
 for current measurement as 4-wire transducer 	Yes
 for resistance measurement with two-wire connection 	Yes; Without compensation of the line resistances
 for resistance measurement with three-wire connection 	No
for resistance measurement with four-wire connection	No
Connectable encoders	
• 2-wire sensor	Yes
 permissible quiescent current (2-wire sensor), max. 	1.5 mA
Errors/accuracies	
Temperature error (relative to input range), (+/-)	0.006 %/K
Crosstalk between the inputs, min.	60 dB
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.06 %
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.1 %
Linearity error (relative to output range), (+/-)	0.15 %
Temperature error (relative to output range), (+/-)	0.01 %/K
Crosstalk between the outputs, min.	60 dB
Repeat accuracy in steady state at 25 °C (relative to	0.06 %
output range), (+/-)	
Operational error limit in overall temperature range	
 Voltage, relative to input range, (+/-) 	1 %
Current, relative to input range, (+/-)	1 %
Resistance, relative to input range, (+/-)	1 %
Voltage, relative to output range, (+/-)	1 %
Current, relative to output range, (+/-) Current, relative to output range, (+/-)	1 %
Basic error limit (operational limit at 25 °C)	0.007
Voltage, relative to input range, (+/-) Current relative to input range, (+/-)	0.8 %; Linearity error ±0.06 %
Current, relative to input range, (+/-)	0.8 %; Linearity error ±0.06 %
Resistance, relative to input range, (+/-) Resistance the properties relative to input range (+/-)	0.8 %; Linearity error ±0.2 %
 Resistance thermometer, relative to input range, (+/- 	0.8 %
Voltage, relative to output range, (+/-)	0.8 %
Current, relative to output range, (+/-)	0.8 %
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =	
Series mode interference (peak value of	30 dB
interference < rated value of input range), min.	
Common mode interference, min.	40 dB
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Number of RS 485 interfaces	1; MPI
Number of RS 422 interfaces	0
1. Interface	
Interface type	Integrated RS 485 interface
Isolated	No
Interface types	
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	
• MPI	Yes

PROFIBUS DP master	No
PROFIBUS DP slave	No
Point-to-point connection	No
MPI	407.511.77
Transmission rate, max. Services	187.5 kbit/s
Services	Voo
— PG/OP communication	Yes No
— Routing	
— Global data communication	Yes Yes
S7 basic communication S7 communication	
	Yes; Only server, configured on one side
— S7 communication, as client— S7 communication, as server	No; but via CP and loadable FB Yes
·	165
Protocols PROFIsafe	No
communication functions / header	INU
	Voc
PG/OP communication	Yes No
Data record routing	INO
Global data communication	Yes
Supported Number of GD loops, may	res 8
Number of GD loops, max.Number of GD packets, max.	8
 Number of GD packets, max. Number of GD packets, transmitter, max. 	8
Number of GD packets, transmitter, max. Number of GD packets, receiver, max.	8
 Size of GD packets, max. 	22 byte
Size of GD packets, max. Size of GD packet (of which consistent), max.	22 byte
S7 basic communication	22 byte
supported	Yes
User data per job, max.	76 byte
User data per job (of which consistent), max.	76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or
• Oser data per job (or which consistent), max.	X_GET as server)
S7 communication	
supported	Yes
• as server	Yes
• as client	Yes; Via CP and loadable FB
 User data per job, max. 	180 byte; With PUT/GET
User data per job (of which consistent), max.	240 byte; as server
S5 compatible communication	
• supported	Yes; via CP and loadable FC
Number of connections	
• overall	8
usable for PG communication	7
— reserved for PG communication	1
— adjustable for PG communication, min.	1
— adjustable for PG communication, max.	7
usable for OP communication To only add for OP communication To onl	7
— reserved for OP communication	1
adjustable for OP communication, min.	1
— adjustable for OP communication, max.	7
usable for S7 basic communication recorded for S7 basic communication	4
— reserved for S7 basic communication	0
adjustable for S7 basic communication, min.	0
— adjustable for S7 basic communication, max.	4
S7 message functions	9. Depending on the configured connections for DO/OD and O7 by
Number of login stations for message functions, max.	8; Depending on the configured connections for PG/OP and S7 basic communication
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	300
Test commissioning functions	
Status block	Yes; Up to 2 simultaneously

Single step	Yes
Number of breakpoints	4
Status/control	4
Status/control variable	Yes
Variables	Inputs, outputs, memory bits, DB, times, counters
	30
Number of variables, max. Studies status variables, max.	
— of which status variables, max.	30
— of which control variables, max.	14
Forcing	Van
Forcing Forcing variables	Yes
Forcing, variables	Inputs, outputs
Number of variables, max. Diagnostic buffer.	10
Diagnostic buffer	Von
• present	Yes
Number of entries, max.	500
— adjustable	No
— of which powerfail-proof	100; Only the last 100 entries are retained
Number of entries readable in RUN, max.	499 Varia France 40 to 400
— adjustable	Yes; From 10 to 499
— preset	10
Service data	· · · · · · · · · · · · · · · · · · ·
can be read out	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
 Status indicator digital input (green) 	Yes
 Status indicator digital output (green) 	Yes
Integrated Functions	
Frequency measurement	Yes
 Number of frequency meters 	3; up to 30 kHz (see "Technological Functions" manual)
controlled positioning	No
integrated function blocks (closed-loop control)	Yes; PID controller (see "Technological Functions" manual)
PID controller	Yes
Number of pulse outputs	3; Pulse width modulation up to 2.5 kHz (see "Technological Functions"
	Manual)
Limit frequency (pulse)	2.5 kHz
Potential separation	
Potential separation digital inputs	
 Potential separation digital inputs 	Yes
 between the channels 	No
between the channels and backplane bus	Yes
Potential separation digital outputs	
 Potential separation digital outputs 	Yes
 between the channels 	Yes
 between the channels, in groups of 	8
between the channels and backplane bus	Yes
Potential separation analog inputs	
 Potential separation analog inputs 	Yes; common for analog I/O
 between the channels 	No
between the channels and backplane bus	Yes
Potential separation analog outputs	
 Potential separation analog outputs 	Yes; common for analog I/O
 between the channels 	No
 between the channels and backplane bus 	Yes
Isolation	
Isolation tested with	600 V DC
Ambient conditions	
Ambient temperature during operation	
Ambient temperature during operation • min	0 °C
Ambient temperature during operation • min. • max.	0 °C 60 °C

configuration / header	
Configuration software	
• STEP 7	Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203
STEP 7 Lite	No
configuration / programming / header	
 Command set 	see instruction list
 Nesting levels 	8
 System functions (SFC) 	see instruction list
 System function blocks (SFB) 	see instruction list
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes
— HiGraph®	Yes
Know-how protection	
 User program protection/password protection 	Yes
 Block encryption 	Yes; With S7 block Privacy
Dimensions	
Width	120 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	660 g

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last modified: