Data sheet



SIPLUS S7-300 CPU 315-2DP -25...+70°C with conformal coating based on 6ES7315-2AH14-0AB0 . Central processing unit with MPI Integr. power supply 24 V DC Work memory 256 KB 2nd interface DP master/ slave Micro Memory Card required

Figure similar

General information	
Product function	
• Isochronous mode	Yes
Engineering with	
Programming package	STEP 7 V5.5 + SP1 or higher or STEP 7 V5.2 + SP1 or higher with HSP 218
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2 A min.
Mains buffering	
Mains/voltage failure stored energy time	5 ms
• Repeat rate, min.	1 s
Input current	

Current consumption (rated value)	850 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	3.5 A
l ² t	1 A ² ·s
Power loss	
Power loss, typ.	4.5 W
Memory	
Work memory	
● integrated	256 kbyte
• expandable	No
 Size of retentive memory for retentive data blocks 	128 kbyte
Load memory	
• Plug-in (MMC)	Yes
• Plug-in (MMC), max.	8 Mbyte
 Data management on MMC (after last programming), min. 	10 y
Backup	
• present	Yes; Guaranteed by MMC (maintenance-free)
• without battery	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.05 μs
for word operations, typ.	0.09 µs
for fixed point arithmetic, typ.	0.12 μs
for floating point arithmetic, typ.	0.45 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.
Number of blocks (total) DB	
DB	can be reduced by the MMC used.
DB • Number, max.	can be reduced by the MMC used. 1 024; Number range: 1 to 16000
DB • Number, max. • Size, max.	can be reduced by the MMC used. 1 024; Number range: 1 to 16000
DB • Number, max. • Size, max. FB	can be reduced by the MMC used. 1 024; Number range: 1 to 16000 64 kbyte
DB • Number, max. • Size, max. FB • Number, max.	can be reduced by the MMC used. 1 024; Number range: 1 to 16000 64 kbyte 1 024; Number range: 0 to 7999
DB • Number, max. • Size, max. FB • Number, max. • Size, max.	can be reduced by the MMC used. 1 024; Number range: 1 to 16000 64 kbyte 1 024; Number range: 0 to 7999
DB • Number, max. • Size, max. FB • Number, max. • Size, max. FC	can be reduced by the MMC used. 1 024; Number range: 1 to 16000 64 kbyte 1 024; Number range: 0 to 7999 64 kbyte
DB • Number, max. • Size, max. FB • Number, max. • Size, max. FC • Number, max.	can be reduced by the MMC used. 1 024; Number range: 1 to 16000 64 kbyte 1 024; Number range: 0 to 7999 64 kbyte 1 024; Number range: 0 to 7999
OB Number, max. Size, max. FB Number, max. Size, max. FC Number, max. Size, max.	can be reduced by the MMC used. 1 024; Number range: 1 to 16000 64 kbyte 1 024; Number range: 0 to 7999 64 kbyte 1 024; Number range: 0 to 7999
DB • Number, max. • Size, max. FB • Number, max. • Size, max. FC • Number, max. • Size, max.	can be reduced by the MMC used. 1 024; Number range: 1 to 16000 64 kbyte 1 024; Number range: 0 to 7999 64 kbyte 1 024; Number range: 0 to 7999 64 kbyte



 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 DPV1 alarm OBs 	3; OB 55, 56, 57
 Number of isochronous mode OBs 	1; OB 61
 Number of startup OBs 	1; OB 100
 Number of asynchronous error OBs 	5; OB 80, 82, 85, 86, 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	
• present	Yes
● Type	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	
• Number	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	No retentivity
Time range	
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
• present	Yes
• Type	SFB
• Number	Unlimited (limited only by RAM capacity)



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Data areas and their retentivity	
retentive data area in total	all, 128 KB max.
Flag	
Number, max.	2 048 byte
Retentivity available	Yes; MB 0 to MB 2 047
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. 2 KB per block
Address area	
I/O address area	
• Inputs	2 048 byte
Outputs	2 048 byte
of which distributed	
— Inputs	2 048 byte
— Outputs	2 048 byte
Process image	
• Inputs	2 048 byte
Outputs	2 048 byte
Inputs, adjustable	2 048 byte
 Outputs, adjustable 	2 048 byte
• Inputs, default	128 byte
Outputs, default	128 byte
Subprocess images	
 Number of subprocess images, max. 	1
Digital channels	
• Inputs	16 384
— of which central	1 024
Outputs	16 384
— of which central	1 024
Analog channels	
• Inputs	1 024
— of which central	256
Outputs	1 024
— of which central	256
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	



• via CP Section Se	• integrated	1
Number of operable FMs and CPs (recommended) • FM • CP, PtP • CP, LAN • Racks, max. • Modules per rack, max. • Hardware clock (real-time) • retentive and synchronizable • Backup time • Deviation per day, max. • Behavior of the clock following POWER-ON • Behavior of the clock following expiry of backup period Operating hours counter • Number • Number Number range • Range of values • Granularity • retentive • retentive • retentive • Yes • Was		4
FM PP, PIP PP, PIP PP, LAN ID Rack Racks, max. Modules per rack, max. Modules per rack, max. Hardware clock (real-time) Petatonive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Porating hours counter Number Number Range of values Granularity retentive Clock synchronization Supported To MPI, naster To MPI, slave To DP, slave To MPI, slave To DP, slave To DP, slave To MPI, slave To DP, slave To DP, slave To SP, slave To DP, slav		
Rack Racks, max. Racks, max. Racks, max. Modules per rack, max. Racks, max. Max. Modules per rack, max. Racks, max. Racks, max. Max. Modules per rack, max. Racks, max. Racks, max. Max. Modules per rack, max. Racks, max. Racks, max. Max. Modules per rack, max. Racks, max. Max. Max. Modules Per rack, max. Racks, max. Max		8
Racks, max. Racks, at 40 °C cabineles trementure Rac	• CP, PtP	8
Rack Racks, max. Racks, max. Nodules per rack, max. Nodules per rack, max. Per set of day Clock Per teentive and synchronizable Rackup time Deviation per day, max. Re behavior of the clock following POWER-ON Rehavior of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period Per set of the clock following expiry of backup period period period period period period per set of the time at which the power failure occurred Power of the clock following expiry of backup period period period period period period period period period per set of the clock period per set of the clock period per set of the clock pe		10
* Modules per rack, max. **Imme of day **Clock** ** Hardware clock (real-time)** ** elearthive and synchronizable** ** Backup time** ** Deviation per day, max. ** Behavior of the clock following POWER-ON ** Behavior of the clock following expiry of backup period** **Operating hours counter** **Number** **Number** **Number** **Number/Number range** **Range of values** **Clock antinues running after POWER OFF* **Clock continues to run with the time at which the power failure occurred** **Operating hours counter** **Number/Number range** **Number/Number range** **O to 2^31 hours (when using SFC 101)* **Testentive** **Clock synchronization** **Supported** **Supported** **Supported** **O MPI, master** **O to MPI, slave** **O to MP, slave** **O to DP, s		
Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Clock continues running after POWER OFF Clock continues to run with the time at which the power failure occurred Operating hours counter Number Number I Number I Number/Number range Range of values Granularity retentive Yes; Must be restarted at each restart Clock synchronization Supported MnH, master MnH, master MnH, master MnH, master MnH, master MnH, slave MnH, s	• Racks, max.	4
Aradware clock (real-time) Yes Fetentive 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 Behavior of the clock following expiry of backup period Clock continues running after POWER OFF Obvious to run with the time at which the power failure occurred	 Modules per rack, max. 	8
Aradware clock (real-time) Yes Fetentive 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 Behavior of the clock following expiry of backup period Clock continues running after POWER OFF Obvious to run with the time at which the power failure occurred	Time of dav	
retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Number	•	
Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Range of values Granularity retentive No MPI, master Oto DP, slave Oto DP, slav	Hardware clock (real-time)	Yes
Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number 1 Number 1 Number/Number range 0 Range of values 0 to 2^31 hours (when using SFC 101) retentive Yes; Must be restarted at each restart Clock synchronization Supported Yes to MPI, naster to DP, naster To DP, slave in AS, slave Politial inputs Number of digital outputs Number of digital outputs Number of digital outputs Number of analog inputs Number of analog inputs Clock synthing after POWER OFF Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred 1 Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred 1 1 1 1 1 1 2 4 5 6 6 7 7 8 7 8 8 9 9 9 9 9 9 9 9 9 9 9	retentive and synchronizable	Yes
Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock continues to run with the time at which the power failure occurred Clock synthering at which the power failure occurred Clock synther	Backup time	6 wk; At 40 °C ambient temperature
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period occurred Operating hours counter Number Number 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 to DP, slave Yes in AS, master Yes in AS, slave Digital inputs Number of digital inputs Number of digital outputs Number of analog inputs Number of analog inputs Number of analog inputs O to 2^31 hours (when using SFC 101) 1	 Behavior of the clock following POWER-ON 	Clock continues running after POWER OFF
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retentive Yes; Must be restarted at each restart Clock synchronization supported to MPI, master to MPI, slave to DP, master to DP, slave in AS, master in AS, slave No Digital inputs Number of digital outputs Number of analog inputs Number of analog outputs Ves; Must be restarted at each restart Yes Yes Yes Yes Yes Yes Yes No No O Analog outputs O Analog outputs O Analog outputs	 Range of values 	0 to 2^31 hours (when using SFC 101)
Clock synchronization • supported • to MPI, master • to MPI, slave • to DP, master • to DP, slave • to DP, slave • in AS, master • in AS, slave Digital inputs Number of digital inputs Number of digital outputs Number of analog inputs Number of analog inputs O Analog outputs	Granularity	1 h
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to MPI, slave to DP, master Yes; With DP slave only slave clock Yes to DP, slave in AS, master in AS, slave Digital inputs Number of digital inputs Number of digital outputs Number of digital outputs Number of analog inputs Number of analog inputs O Analog outputs O Analog outputs	• supported	Yes
to DP, master to DP, slave to DP, slave in AS, master in AS, slave Digital inputs Number of digital outputs Number of digital outputs Number of analog inputs Number of analog outputs O Analog outputs O Analog outputs	• to MPI, master	Yes
 to DP, slave in AS, master in AS, slave No Digital inputs Number of digital inputs Digital outputs Number of digital outputs Number of digital outputs Number of analog inputs Number of analog inputs O Analog outputs O Analog outputs O	to MPI, slave	Yes
 in AS, master in AS, slave No Digital inputs Number of digital inputs Digital outputs Number of digital outputs Number of digital outputs Number of analog inputs Number of analog inputs Analog outputs O Analog outputs	● to DP, master	Yes; With DP slave only slave clock
in AS, slave Digital inputs Number of digital inputs Digital outputs Number of digital outputs Number of digital outputs O Analog inputs Number of analog inputs O Analog outputs	● to DP, slave	Yes
Digital inputs Number of digital inputs Digital outputs Number of digital outputs Number of analog inputs Number of analog inputs O Analog outputs	● in AS, master	Yes
Number of digital inputs Digital outputs Number of digital outputs O Analog inputs Number of analog inputs O Analog outputs	● in AS, slave	No
Digital outputs Number of digital outputs O Analog inputs Number of analog inputs O Analog outputs	Digital inputs	
Number of digital outputs Analog inputs Number of analog inputs O Analog outputs	Number of digital inputs	0
Analog inputs Number of analog inputs O Analog outputs	Digital outputs	
Number of analog inputs 0 Analog outputs		0
Analog outputs	Analog inputs	
	Number of analog inputs	0
Number of analog outputs 0	Analog outputs	
	Number of analog outputs	0



nterfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Number of RS 485 interfaces	2; MPI and PROFIBUS DP
Number of RS 422 interfaces	0
. Interface	
Interface type	Integrated RS 485 interface
Physics	RS 485
Isolated	No
Power supply to interface (15 to 30 V DC), max.	200 mA
Protocols	
• MPI	Yes
 PROFIBUS DP master 	No
 PROFIBUS DP slave 	No
Point-to-point connection	No
MPI	
Transmission rate, max.	187.5 kbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
 Global data communication 	Yes
 S7 basic communication 	Yes
— S7 communication	Yes; Only server, configured on one side
 — S7 communication, as client 	No
— S7 communication, as server	Yes
2. Interface	
Interface type	Integrated RS 485 interface
Physics	RS 485
Isolated	Yes
Power supply to interface (15 to 30 V DC), max.	200 mA
Protocols	
• MPI	No
 PROFIBUS DP master 	Yes
 PROFIBUS DP slave 	Yes
Point-to-point connection	No
PROFIBUS DP master	
Number of connections, max.	16



Services

• Transmission rate, max.

• Number of DP slaves, max.

— PG/OP communication



12 Mbit/s

Yes

124; Per station

— Routing	Yes
Global data communication	No
— S7 basic communication	Yes; I blocks only
— S7 communication	Yes; Only server, configured on one side
— S7 communication, as client	No
— S7 communication, as server	Yes
— Equidistance	Yes
Isochronous mode	Yes; OB 61
— SYNC/FREEZE	Yes
Activation/deactivation of DP slaves	Yes
Number of DP slaves that can be	8
simultaneously activated/deactivated, max.	
— DPV1	Yes
Address area	
— Inputs, max.	2 048 byte
— Outputs, max.	2 048 byte
User data per DP slave	
— Inputs, max.	244 byte
— Outputs, max.	244 byte
PROFIBUS DP slave	
• GSD file	The latest GSD file is available at:
	http://www.siemens.com/profibus-gsd
 Transmission rate, max. 	12 Mbit/s
automatic baud rate search	Yes; only with passive interface
 Address area, max. 	32
User data per address area, max.	32 byte
Services	
— PG/OP communication	Yes
— Routing	Yes; Only with active interface
 Global data communication 	No
— S7 basic communication	No
— S7 communication	Yes
 S7 communication, as client 	No
 S7 communication, as server 	Yes
 — Direct data exchange (slave-to-slave communication) 	Yes
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
Isochronous mode	



Isochronous operation (application synchronized up to terminal)	Yes
Communication functions	
PG/OP communication	Yes
Data record routing	Yes
Global data communication	
• supported	Yes
 Number of GD loops, max. 	8
Number of GD packets, max.	8
 Number of GD packets, transmitter, max. 	8
 Number of GD packets, receiver, max. 	8
 Size of GD packets, max. 	22 byte
 Size of GD packet (of which consistent), max. 	22 byte
S7 basic communication	
• 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 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	16
 usable for PG communication 	15
 reserved for PG communication 	1
— adjustable for PG communication, min.	1
— adjustable for PG communication, max.	15
 usable for OP communication 	15
— reserved for OP communication	1
— adjustable for OP communication, min.	1
— adjustable for OP communication, max.	15
usable for S7 basic communication	12
— reserved for S7 basic communication	0
 adjustable for S7 basic communication, min. 	0
 adjustable for S7 basic communication, max. 	12



S7 massaga functions	
S7 message functions Number of login stations for message functions, max.	16; Depending on the configured connections for PG/OP and S7
number of login stations for message functions, max.	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	
Status/control variable	Yes
Variables	Inputs, outputs, memory bits, DB, times, counters
Number of variables, max.	30
— of which status variables, max.	30
— of which control variables, max.	14
Forcing	
• Forcing	Yes
• Forcing, variables	Inputs, outputs
Number of variables, max.	10
Diagnostic buffer	
• 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. 	
— adjustable	Yes; From 10 to 499
— preset	10
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes; File E239877
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
• ATEX	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
Ambient temperature during storage/transportation	
• min.	-40 °C



• max.	70 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m
 Ambient air temperature-barometric pressure- altitude 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Configuration	
Configuration software	
• STEP 7	Yes; V5.2 SP1 or higher with HW update
Programming	
Command set	see instruction list
 Nesting levels 	8
System functions (SFC)	see instruction list
 System function blocks (SFB) 	see instruction list
Programming language	



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— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes
— HiGraph®	Yes
Know-how protection	
User program protection/password protection	Yes
Dimensions	
Width	40 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	290 g
last modified:	10/09/2020

