SIEMENS

Data sheet

6ES7511-1FL03-0AB0



SIMATIC S7-1500F, CPU 1511F-1 PN, central processing unit with work memory 450 KB for program and 1.5 MB for data, 1st interface: PROFINET IRT with 2-port switch, 25 ns bit performance, SIMATIC Memory Card required **** approvals and certificate according to entry 109815653 at support.industry.siemens.com to be observed! ****

Figure similar

General information	
Product type designation	CPU 1511F-1 PN
HW functional status	FS01
Firmware version	V3.0
 FW update possible 	Yes
Product function	
 I&M data 	Yes; I&M0 to I&M3
Isochronous mode	Yes; Distributed and central; with minimum OB 6x cycle of 500 μs (distributed) and 1 ms (central)
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V18 (FW V3.0); with older TIA Portal versions configurable as 6ES7 511-1FK02-0AB0
Configuration control	
via dataset	Yes
Display	
Screen diagonal [cm]	3.45 cm
Control elements	
Number of keys	8
Mode buttons	2
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Repeat rate, min.	1/s
Input current	
Current consumption (rated value)	0.73 A
Current consumption, max.	0.9 A
Inrush current, max.	1.15 A; Rated value
l²t	0.5 A ² ·s
Power	
Infeed power to the backplane bus	10 W
Power consumption from the backplane bus (balanced)	5.5 W
Power loss	
Power loss, typ.	7.5 W
Memory	
Number of slots for SIMATIC memory card	1

CIMATIC recercipt courd required	Vec
SIMATIC memory card required	Yes
Work memory	450 kb to
 integrated (for program) integrated (for data) 	450 kbyte
integrated (for data) Load memory	1.5 Mbyte
Plug-in (SIMATIC Memory Card), max.	32 Gbyte
Backup	32 Obyte
maintenance-free	Yes
CPU processing times	
	25 mg
for bit operations, typ.	25 ns 32 ns
for word operations, typ. for fixed point arithmetic, typ.	42 ns
for floating point arithmetic, typ.	42 hs 170 ns
CPU-blocks	170 115
Number of elements (total)	4 000; Blocks (OB, FB, FC, DB) and UDTs
DB	4. CO 000 subdivided into number range that can be used by the
Number range	1 60 999; subdivided into: number range that can be used by the user: 1 59 999, and number range of DBs created via SFC 86: 60 000 60 999
• Size, max.	1.5 Mbyte; For DBs with absolute addressing, the max. size is 64 KB
FB	
Number range	0 65 535
• Size, max.	450 kbyte
FC	
Number range	0 65 535
• Size, max.	450 kbyte
OB	
 Size, max. 	450 kbyte
 Number of free cycle OBs 	100
 Number of time alarm OBs 	20
 Number of delay alarm OBs 	20
 Number of cyclic interrupt OBs 	20; With minimum OB 3x cycle of 250 µs
 Number of process alarm OBs 	50
 Number of DPV1 alarm OBs 	3
 Number of isochronous mode OBs 	2
 Number of technology synchronous alarm OBs 	2
 Number of startup OBs 	100
 Number of asynchronous error OBs 	4
Number of synchronous error OBs	2
Number of diagnostic alarm OBs	1
Nesting depth	
per priority class	24; Up to 8 possible for F-blocks
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
IEC counter	
• Number	Any (only limited by the main memory)
Retentivity	
— adjustable	Yes
S7 times	0.040
• Number	2 048
Retentivity	No.
— adjustable	Yes
IEC timer	Any (only limited by the main memory)
Number Potentivity	Any (only limited by the main memory)
Retentivity	Vee
— adjustable	Yes
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	256 kbyte; in total; available retentive memory for bit memories, timers,
Extended retentive data area (incl. timora, countors, floco)	counters, DBs, and technology data (axes): 216 KB 1.5 Mbyte; When using PS 6 0W 24/48/60 V DC HF
Extended retentive data area (incl. timers, counters, flags), max.	1.5 Millyte, When using FS 0 0W 24/40/00 V DC FF

Flag	
• Size, max.	16 kbyte
Number of clock memories	8; 8 clock memory bit, grouped into one clock memory byte
Data blocks	
Retentivity adjustable	Yes
Retentivity preset	No
Local data	
 per priority class, max. 	64 kbyte; max. 16 KB per block
Address area	
Number of IO modules	2 048; max. number of modules / submodules
I/O address area	
• Inputs	32 kbyte; All inputs are in the process image
• Outputs	32 kbyte; All outputs are in the process image
per integrated IO subsystem	
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
per CM/CP	,
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
Subprocess images	
Number of subprocess images, max.	32
Hardware configuration	
Number of distributed IO systems	32; A distributed I/O system is characterized not only by the integration
	of distributed I/O via PROFINET or PROFIBUS communication modules, but also by the connection of I/O via AS-i master modules or links (e.g. IE/PB-Link)
Number of DP masters	
Via CM	4; A maximum of 4 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can
	be inserted in total
Number of IO Controllers	
integrated	1
• Via CM	4; A maximum of 4 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can
	be inserted in total
Rack	
 Modules per rack, max. 	32; CPU + 31 modules
Number of lines, max.	1
PtP CM	
 Number of PtP CMs 	the number of connectable PtP CMs is only limited by the number of
The of the	available slots
Time of day	
Clock	
• Type	Hardware clock
Backup time	6 wk; At 40 °C ambient temperature, typically
Deviation per day, max.	10 s; Typ.: 2 s
Operating hours counter	10
Number Clock symphronization	16
Clock synchronization	Von
• supported	Yes
• in AS, master	Yes
 in AS, slave on Ethernet via NTP 	Yes
Interfaces	
Number of PROFINET interfaces	1
1. Interface	
Interface types	
RJ 45 (Ethernet)	Yes; X1
Number of ports	2
 integrated switch 	Yes
Protocols	
IP protocol	Yes; IPv4
IP protocol PROFINET IO Controller	Yes; IPv4 Yes
IP protocol PROFINET IO Controller PROFINET IO Device	Yes; IPv4 Yes Yes
IP protocol PROFINET IO Controller	Yes; IPv4 Yes

Web server	Yes
Media redundancy	Yes
PROFINET IO Controller	
Services	
— PG/OP communication	Yes
 — Isochronous mode 	Yes
 — Direct data exchange 	Yes; Requirement: IRT and isochronous mode (MRPD optional)
— IRT	Yes
— PROFlenergy	Yes; per user program
— Prioritized startup	Yes; Max. 32 PROFINET devices
 Number of connectable IO Devices, max. 	128; In total, up to 512 distributed I/O devices can be connected via AS- i, PROFIBUS or PROFINET
 — Of which IO devices with IRT, max. 	64
 Number of connectable IO Devices for RT, 	128
max.	128
 — of which in line, max. — Number of IO Devices that can be 	8; in total across all interfaces
simultaneously activated/deactivated, max.	o, in total across all interfaces
— Number of IO Devices per tool, max.	8
— Updating times	The minimum value of the update time also depends on communication
	share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data
Update time for IRT	
— for send cycle of 250 µs	250 μs to 4 ms; Note: In the case of IRT with isochronous mode, the minimum update time of 500 μs of the isochronous OB is decisive
— for send cycle of 500 μ s	500 μs to 8 ms; Note: In the case of IRT with isochronous mode, the minimum update time of 625 μs of the isochronous OB is decisive
— for send cycle of 1 ms	1 ms to 16 ms
 for send cycle of 2 ms 	2 ms to 32 ms
— for send cycle of 4 ms	4 ms to 64 ms
 With IRT and parameterization of "odd" send 	Update time = set "odd" send clock (any multiple of 125 μ s: 375 μ s, 625
cycles	μs 3 875 μs)
Update time for RT	250 up to 120 mg
— for send cycle of 250 μs	250 μs to 128 ms 500 μs to 256 ms
 — for send cycle of 500 μs — for send cycle of 1 ms 	1 ms to 512 ms
— for send cycle of 1 ms	2 ms to 512 ms
— for send cycle of 4 ms	4 ms to 512 ms
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— Isochronous mode	No
— IRT	Yes
— PROFlenergy	Yes; per user program
— Shared device	Yes
— Number of IO Controllers with shared device,	4
max.	
 activation/deactivation of I-devices 	Yes; per user program
 Asset management record 	Yes; per user program
Interface types	
RJ 45 (Ethernet)	
• 100 Mbps	Yes
Autonegotiation	Yes
Autocrossing	Yes
 Industrial Ethernet status LED 	Yes
Protocols	
PROFIsafe	Yes; V2.4 / V2.6
Number of connections	
Number of connections, max.	128; via integrated interfaces of the CPU and connected CPs / CMs
Number of connections reserved for ES/HMI/web	10
Number of connections via integrated interfaces	88
Number of S7 routing paths	16
Redundancy mode	
H-Sync forwarding	Yes
Media redundancy	

— Media redundancy	anhyvia 1 at interface (X1)
— MRP	only via 1st interface (X1)
— MRP	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0, MRP Manager; MRP Client
- MRP interconnection, supported	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0
— MRPD	Yes; Requirement: IRT
— Switchover time on line break, typ.	200 ms; For MRP, bumpless for MRPD
— Number of stations in the ring, max.	50
SIMATIC communication	
PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
• S7 routing	Yes
Data record routing	Yes
 S7 communication, as server 	Yes
 S7 communication, as client 	Yes
• User data per job, max.	See online help (S7 communication, user data size)
Open IE communication	
• TCP/IP	Yes
— Data length, max.	64 kbyte
— several passive connections per port,	Yes
supported	
 ISO-on-TCP (RFC1006) 	Yes
— Data length, max.	64 kbyte
• UDP	Yes
— Data length, max.	2 kbyte; 1 472 bytes for UDP broadcast
— UDP multicast	Yes; max. 78 multicast circuits
• DHCP	Yes
• DNS	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Encryption	Yes; Optional
Web server	
• HTTP	Yes; Standard and user pages
• HTTPS	Yes; Standard and user pages
OPC UA	
Runtime license required	Yes; "Small" license required
OPC UA Client	Yes; Data Access (registered Read/Write), Method Call
— Application authentication	Yes
— Security policies	Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
- User authentication	"anonymous" or by user name & password
— Number of connections, max.	4
 — Number of nodes of the client interfaces, 	1 000
recommended max.	
recommended max. — Number of elements for one call of	300
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. 	300
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of 	
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. 	300 20
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of 	300
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. 	300 20 100
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of 	300 20
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client 	300 20 100
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client 	300 20 100
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. 	300 20 100 1
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. Number of registerable nodes, max. 	300 20 100 1 5 5 000
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. Number of registerable nodes, max. Number of registerable method calls of 	300 20 100 1
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. Number of registerable nodes, max. Number of registerable method calls of OPC_UA_MethodCall, max. 	300 20 100 1 5 5 000 100
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. Number of registerable nodes, max. Number of registerable method calls of OPC_UA_MethodCall, max. Number of inputs/outputs when calling 	300 20 100 1 5 5 000
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. Number of registerable nodes, max. Number of registerable method calls of OPC_UA_MethodCall, max. 	300 20 100 1 5 5 000 100 20
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. Number of registerable nodes, max. Number of registerable method calls of OPC_UA_MethodCall, max. Number of inputs/outputs when calling OPC_UA_MethodCall, max. 	300 20 100 1 5 5 000 100
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. Number of registerable nodes, max. Number of registerable method calls of OPC_UA_MethodCall, max. Number of inputs/outputs when calling OPC_UA_MethodCall, max. 	300 20 100 1 5 5 000 100 20 Yes; Data Access (Read, Write, Subscribe), Method Call, Alarms &
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. Number of registerable nodes, max. Number of registerable method calls of OPC_UA_MethodCall, max. Number of inputs/outputs when calling OPC_UA_MethodCall, max. OPC UA Server 	300 20 100 1 5 5 000 100 20 Yes; Data Access (Read, Write, Subscribe), Method Call, Alarms & Condition (A&C), Custom Address Space Yes available security policies: None, Basic128Rsa15, Basic256Rsa15,
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. Number of registerable nodes, max. Number of registerable method calls of OPC_UA_MethodCall, max. Number of inputs/outputs when calling OPC_UA_MethodCall, max. OPC UA Server Application authentication Security policies 	300 20 100 1 3 5 5 000 100 20 Yes; Data Access (Read, Write, Subscribe), Method Call, Alarms & Condition (A&C), Custom Address Space Yes available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256, Aes128Sha256RsaOaep, Aes256Sha256RsaPss
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C max. Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. Number of elements for one call of OPC_UA_MethodGetHandleList, max. Number of simultaneous calls of the client instructions for session management, per connection, max. Number of simultaneous calls of the client instructions for data access, per connection, max. Number of registerable nodes, max. Number of registerable method calls of OPC_UA_MethodCall, max. Number of inputs/outputs when calling OPC_UA_MethodCall, max. OPC UA Server Application authentication 	300 20 100 1 5 5 000 100 20 Yes; Data Access (Read, Write, Subscribe), Method Call, Alarms & Condition (A&C), Custom Address Space Yes available security policies: None, Basic128Rsa15, Basic256Rsa15,

 Number of sessions, max. Number of accessible variables, max. Number of registerable nodes, max. 	32 50 000 10 000
— Number of subscriptions per session, max.	50 100 ms
— Sampling interval, min. — Publishing interval, min.	200 ms
— Number of server methods, max.	20
 Number of inputs/outputs per server method, max. 	20
 — Number of monitored items, recommended max. 	4 000; for 1 s sampling interval and 1 s send interval
— Number of server interfaces, max.	10 of each "Server interfaces" / "Companion specification" type and 20 of the type "Reference namespace"
 — Number of nodes for user-defined server interfaces, max. 	15 000
Alarms and Conditions	Yes
— Number of program alarms	100
— Number of alarms for system diagnostics	50
Further protocols MODBUS	Yes; MODBUS TCP
S7 message functions	
Number of login stations for message functions, max.	32
Program alarms	Yes
Number of configurable program messages, max.	5 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH
Number of loadable program messages in RUN, max.	2 500
Number of simultaneously active program alarms	
 Number of program alarms 	600
 Number of alarms for system diagnostics 	100
 Number of alarms for motion technology objects 	160
Test commissioning functions	
Joint commission (Team Engineering)	Yes; Parallel online access possible for up to 5 engineering systems
Status block	Yes; Up to 8 simultaneously (in total across all ES clients)
Single step	No 8
Number of breakpoints Status/control	0
Status/control variable	Yes; without fail-safe
VariablesNumber of variables, max.	inputs/outputs, bit memories, DBs, peripheral I/Os (without fail-safe), times, counters
 Multiple of variables, max. — of which status variables, max. 	200; per job
— of which control variables, max.	200; per job 200; per job
Forcing	200, por job
Forcing	Yes; without fail-safe
 Forcing, variables 	peripheral inputs/outputs (without fail-safe)
 Number of variables, max. 	200
Diagnostic buffer	
present	Yes
 Number of entries, max. — of which powerfail-proof 	1 000 500
Traces	
Number of configurable Traces	4; Up to 512 KB of data per trace are possible
Interrupts/diagnostics/status information	2 · F · · · · · · · · · · · · · · · · ·
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
STOP ACTIVE LED	Yes
Connection display LINK TX/RX	Yes
Supported technology objects	
Motion Control	Yes; Note: The number of technology objects affects the cycle time of the PLC program; selection guide via the TIA Selection Tool
 Number of available Motion Control resources for technology objects 	1 120

 Required Motion Control resources 		
— per speed-controlled axis	40	
— per positioning axis	80	
— per synchronous axis	160	
— per external encoder	80	
— per output cam	20	
— per cam track	160	
— per probe	40	
Positioning axis		
 Number of positioning axes at motion control 	11	
cycle of 4 ms (typical value)		
 — Number of positioning axes at motion control 	14	
cycle of 8 ms (typical value)		
Controller		
 PID_Compact 	Yes; Universal PID controller with integrated optimization	
PID_3Step	Yes; PID controller with integrated optimization for valves	
PID-Temp	Yes; PID controller with integrated optimization for temperature	
Counting and measuring		
 High-speed counter 	Yes	
Standards, approvals, certificates		
Highest safety class achievable in safety mode		
 Performance level according to ISO 13849-1 	PLe	
SIL acc. to IEC 61508	SIL 3	
Probability of failure (for service life of 20 years and repair		
 Low demand mode: PFDavg in accordance 	< 2.00E-05	
with SIL3		
 High demand/continuous mode: PFH in accordance with SIL3 	< 1.00E-09	
Ambient conditions		
Ambient temperature during operation		
 horizontal installation, min. 	-30 °C; No condensation	
 horizontal installation, max. 	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the	
·····	display is switched off	
 vertical installation, min. 	-30 °C; No condensation	
 vertical installation, max. 	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the	
	display is switched off	
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; Restrictions for installation altitudes > 2 000 m, see manual	
configuration / header		
configuration / programming / header		
Programming language		
— LAD	Yes; incl. failsafe	
— FBD	Yes; incl. failsafe	
— STL	Yes	
— SCL	Yes	
— GRAPH	Yes	
Know-how protection	N	
User program protection/password protection	Yes	
Copy protection	Yes	
Block protection	Yes	
Access protection	Vee	
 protection of confidential configuration data 	Yes	
Password for display	Yes	
Protection level: Write protection	Yes	
Protection level: Read/write protection	Yes	
Protection level: Write protection for Failsafe Protection level: Complete protection	Yes	
Protection level: Complete protection	Yes	
programming / cycle time monitoring / header • lower limit	adjustable minimum cycle time	
upper limit	adjustable minimum cycle time adjustable maximum cycle time	
Dimensions		

Width	35 mm	
Height Depth	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	336 g	

last modified:

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