SIEMENS

Data sheet

6ES7212-1HE31-0XB0



SIMATIC S7-1200, CPU 1212C, compact CPU, DC/DC/relay, onboard I/O: 8 DI 24 V DC; 6 DO relay 2 A; 2 AI 0-10 V DC, Power supply: DC 20.4-28.8V DC, Program/data memory 50 KB

General information	
Product type designation	CPU 1212C DC/DC/relay
Engineering with	
 Programming package 	STEP 7 V11 SP2 or higher
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Load voltage L+	
 Rated value (DC) 	24 V
 permissible range, lower limit (DC) 	20.4 V
 permissible range, upper limit (DC) 	28.8 V
Input current	
Current consumption (rated value)	175 mA; Typical
Current consumption, max.	1.2 A; 24 V DC
Inrush current, max.	12 A; at 28.8 V
Output current	
for backplane bus (5 V DC), max.	1 000 mA; Max. 5 V DC for SM and CM
Encoder supply	
24 V encoder supply	
• 24 V	Permissible range: 20.4V to 28.8V
Power loss	
Power loss, typ.	9 W
Memory	
Work memory	
• integrated	50 kbyte
expandable	No
Load memory	
integrated	1 Mbyte
Backup	
present	Yes; maintenance-free
without battery	Yes
CPU processing times	
for bit operations, typ.	0.085 μs; / instruction
for word operations, typ.	1.7 µs; / instruction
for floating point arithmetic, typ.	2.5 µs; / instruction
CPU-blocks	

• Number of digital inputs • Overlothic immutaneously controllable inputs all mounting positions • Or signal "1" • Or signal "	Number of blocks (total)	DBs, FCs, FBs, counters and timers. The maximum number of addressable blocks ranges from 1 to 65535. There is no restriction, the
• Number, max. Diagrams and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag • Size, max. Address area • Inputs • Inputs • Inputs • Inputs, adjustable • Outputs, adjustable • Outp	**	entire working memory can be used
Pate areas and their retentivity Relentive data area (incl. timers, counters, flags), max. Plag • Size, max. 4 kbyte; Size of bit memory address area 4 kdrdess area 10 address area 10 pubs • Inputs • Inputs, adjustable • Outputs, adjustable • Pardware cords (real-time) • Backup time • Deviation per day, max. • Backup time • Deviation per day, max. • Oligital inputs Number of inputs usable for technological functions Source/sink input Number of similareaeusly controllable inputs all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • Or signal 1°1 • Or signal 1°1, typ. • For signal 1°1 • For signal 1°1, typ. • For signal 1°1 • For signal 1°1, typ. • For signal		II V I I I DAME
Referritive data area (incl. timers, counters, flags), max. Fisig Size, max. Address area Inputs Inputs Inputs Inputs Inputs Inputs, adjustable Inputs, adju	•	Limited only by RAM for code
Size, max.		
Activates a prace		10 kbyte
Address area • Inputs • Outputs • Outputs • Outputs • Outputs, adjustable • Outputs, ad	<u> </u>	
To 24 byte 1 024 byte 1 0		4 kbyte; Size of bit memory address area
Inputs Outputs Process image Outputs, adjustable Outputs Outp		
Process image Inputs, adjustable It kbyte Outputs, adjustable It kbyte Outputs, adjustable It kbyte	•	
Inputs adjustable 1 kbyte	·	1 024 byte
• Outputs, adjustable Hardware configuration Number of modules per system, max. Time of day Clock • Hardware clock (real-time) • Backup time • Devalation per day, max. Oligital inputs Number of digital inputs Number of digital inputs • Of which inputs sueble for technological functions Source/sink input Number of simultaneously controllable inputs all mounting positions — up to 40 °C, max. 8 Pasted value (DC) • for signal °C' • for	_	
Number of modules per system, max. Input voltage Rated value (DC) of or signal "1" of or signal "1" of or signal "1" of or signal "1" of signal "1"		· ·
Number of modules per system, max. Time of day Clock Hardware clock (real-time) Backup time Deviation per day, max. Source/sink input Number of digital inputs Source/sink input Number of simultaneously controllable inputs all mounting positions — up to 40 °C, max. Input voltage Rated value (DC) for signal "0" for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", min. — at "0" to "1", mix. To risteriup timputs — parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 Cable length shielded, max. unshielded, max. sunshielded, max.		1 kbyte
Time of day Clock	Hardware configuration	
Clock	Number of modules per system, max.	3 comm. modules, 1 signal board, 2 signal modules
Hardware clock (real-time)	Time of day	
Backup time 480 h; Typical 60 s/month at 25 °C Digital inputs Number of digital inputs of which inputs usable for technological functions Source/sink input Number of Simultaneously controllable inputs all mounting positions — up to 40 °C, max. Ball mounting positions — up to 40 °C, max. Input voltage Rated value (DC) of ro signal "0" of ro signal "1" of ro signal "1" of ro signal "1" of ro signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable of ro information of ro technological functions — parameterizable of retechnological functions — parameterizable of retechnological functions — parameterizable of signal phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length oshielded, max. oshielded, max. oshort-circuit protection No; to be provided externally Switching capacity of the outputs owth has a contained and	Clock	
Deviation per day, max. Number of digital inputs of which inputs usable for technological functions Source/sink input Number of simultaneously controllable inputs all mounting positions — up to 40 °C, max. Input voltage Rated value (DC) of or signal "1" of	 Hardware clock (real-time) 	Yes
Number of digital inputs • of which inputs usable for technological functions Source/sink input • of which inputs usable for technological functions Source/sink input Ves Number of simultaneously controllable inputs all mounting positions — up to 40 °C, max. 8 Input voltage • Rated value (DC) • for signal "1" • for signal "1" • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. • unshielded, max. • shielded, max. • unshielded, max. • on lamp load, max. • on lamp load, max. • on lamp load, max. • "1" to "0", max. • "1" to "0", max. • 10 ms; max. • "1" to "0", max. • "10 ms; max.	Backup time	480 h; Typical
Number of digital inputs of which inputs usable for technological functions Source/sink input Number of simultaneously controllable inputs all mounting positions —up to 40 °C, max. Input voltage • Rated value (DC) • for signal "1" • for signal "1" • for signal "1" • for signal "1" • for signal "1", typ. Input current • for signal "1", typ. Input day (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable	 Deviation per day, max. 	60 s/month at 25 °C
of which inputs usable for technological functions Source/sink input Number of simultaneously controllable inputs all mounting positions — up to 40 °C, max. 8 Input voltage • Rated value (DC) • for signal "0" • for signal "1" • for signal "1", typ. 1 mA Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", max. for interrupt inputs — parameterizable	Digital inputs	
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Source/sink input Number of simultaneously controllable inputs all mounting positions — up to 40 °C, max. 8 Input voltage • Rated value (DC) • for signal "0" • for signal "1" 15 V DC at 2.5 mA Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable		-
Number of simultaneously controllable inputs all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" 15 V DC at 1 mA • for signal "1", typ. Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable Parameterizable For technological functions — parameterizable For technological functions — parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length • shielded, max. • unshielded, max. • unshielded, max. Soom; 50 m for technological functions No Digital outputs Number of digital outputs Short-circuit protection No; to be provided externally Switching capacity of the outputs • with resistive load, max. • on lamp load, max. Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms; max.		
all mounting positions		
Input voltage		
Input voltage	- :	8
• Rated value (DC) • for signal "0" • for signal "1" Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length • shielded, max. • unshielded, max. Number of digital outputs Number of digital outputs Number of digital outputs • with resistive load, max. • with resistive load, max. • on lamp load, max. • on lamp load, max. • "1" to "0", max. 10 ms; max. • "1" to "0", max. 1 mA 1 m ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0 .2 ms 1 n ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0 .2 ms 1 m ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0 .2 ms 1 m ms 1	·	
• for signal "0" • for signal "1" 15 V DC at 2.5 mA Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz & 1 @ 30 m; for technological functions ounshielded, max. shelded, max. shelded, max. unshielded, max. short-circuit protection No; to be provided externally Switching capacity of the outputs • with resistive load, max. • with resistive load, max. • "0" to "1", max. • "1" to "0", max. 10 ms; max. • "1" to "0", max. 10 ms; max. • "1" to "0", max. 10 ms; max. • "1" to "0", max. 10 ms; max. • "1" to "0", max. 10 ms; max. • "1" to "0", max.		24 V
• for signal "1" 15 V DC at 2.5 mA Input current • for signal "1", typ. 1 mA Input delay (for rated value of input voltage) for standard inputs parameterizable 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four at "0" to "1", min. 0.2 ms at "0" to "1", max. 12.8 ms for interrupt inputs parameterizable Yes for technological functions parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length • shielded, max. 500 m; 50 m for technological functions • unshielded, max. 300 m; for technological functions: No Digital outputs Number of digital outputs Short-circuit protection No; to be provided externally Switching capacity of the outputs • with resistive load, max. 2 A • on lamp load, max. 30 W with DC, 200 W with AC Output delay with resistive load • "0" to "1", max. 10 ms; max. • "1" to "0", max. 10 ms; max. • "1" to "0", max. 10 ms; max.	,	5 V DC at 1 mA
Input current	-	
for signal "1", typ.		
Input delay (for rated value of input voltage) for standard inputs	•	1 mA
for standard inputs	, , , , , , , , , , , , , , , , , , ,	
parameterizable at "0" to "1", min at "0" to "1", min at "0" to "1", max. for interrupt inputs parameterizable for technological functions parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length • shielded, max. • unshielded, max. Soo m; 50 m for technological functions: No Digital outputs Number of digital outputs Short-circuit protection Short-circuit protection Switching capacity of the outputs • with resistive load, max. • on lamp load, max. 10 ms; max. • "1" to "0", max. 10 ms; max.		
in groups of four - at "0" to "1", min at "0" to "1", max. 12.8 ms for interrupt inputs parameterizable parameteriz	·	0.2 ms. 0.4 ms. 0.8 ms. 1.6 ms. 3.2 ms. 6.4 ms and 12.8 ms. selectable
- at "0" to "1", max. for interrupt inputs - parameterizable for technological functions - parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length • shielded, max. • unshielded, max. 500 m; 50 m for technological functions authorizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length • shielded, max. 500 m; 50 m for technological functions: No Digital outputs Number of digital outputs Short-circuit protection No; to be provided externally Switching capacity of the outputs • with resistive load, max. • with resistive load, max. • on lamp load, max. • on lamp load, max. 10 ms; max. • "1" to "0", max. 10 ms; max.	parameter. <u>L</u> uste	
for interrupt inputs	— at "0" to "1", min.	0.2 ms
- parameterizable for technological functions - parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length • shielded, max. • unshielded, max. 500 m; 50 m for technological functions • unshielded, max. 300 m; for technological functions: No Digital outputs Number of digital outputs Short-circuit protection Switching capacity of the outputs • with resistive load, max. • on lamp load, max. • on lamp load, max. Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms; max. 10 ms; max. 10 ms; max.	— at "0" to "1", max.	12.8 ms
- parameterizable for technological functions - parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length • shielded, max. • unshielded, max. 500 m; 50 m for technological functions • unshielded, max. 300 m; for technological functions: No Digital outputs Number of digital outputs Short-circuit protection Switching capacity of the outputs • with resistive load, max. • on lamp load, max. • on lamp load, max. Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms; max. 10 ms; max. 10 ms; max.	for interrupt inputs	
for technological functions — parameterizable Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 30 kHz Cable length • shielded, max. • unshielded, max. 500 m; 50 m for technological functions • unshielded, max. 300 m; for technological functions: No Digital outputs Number of digital outputs Short-circuit protection No; to be provided externally Switching capacity of the outputs • with resistive load, max. • on lamp load, max. • on lamp load, max. 10 ms; max. • "1" to "0", max. 10 ms; max.		Yes
Cable length • shielded, max. • unshielded, max. Soo m; 50 m for technological functions • unshielded, max. Digital outputs Number of digital outputs Short-circuit protection Switching capacity of the outputs • with resistive load, max. • on lamp load, max. Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 2 A 10 ms; max. 10 ms; max.	for technological functions	
Cable length • shielded, max. • unshielded, max. • unshielded, max. Digital outputs Number of digital outputs Short-circuit protection Switching capacity of the outputs • with resistive load, max. • on lamp load, max. • on lamp load, max. Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms; max.	— parameterizable	Single phase: 3 @ 100 kHz & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1
 shielded, max. unshielded, max. 300 m; 50 m for technological functions 300 m; for technological functions: No Digital outputs Relays Short-circuit protection No; to be provided externally Switching capacity of the outputs with resistive load, max. on lamp load, max. on lamp load, max. output delay with resistive load "0" to "1", max. "1" to "0", max. 10 ms; max. 10 ms; max. 		@ 30 kHz
 unshielded, max. Digital outputs Number of digital outputs Short-circuit protection Switching capacity of the outputs with resistive load, max. on lamp load, max. Output delay with resistive load "0" to "1", max. "1" to "0", max. 300 m; for technological functions: No 6; Relays No; to be provided externally 2 A 30 W with DC, 200 W with AC 10 ms; max. 10 ms; max. 10 ms; max. 	_	
Number of digital outputs Short-circuit protection Switching capacity of the outputs with resistive load, max. on lamp load, max. Output delay with resistive load """ to "0" to "1", max. """ to "0", max. 10 ms; max.		
Number of digital outputs Short-circuit protection No; to be provided externally Switching capacity of the outputs • with resistive load, max. • on lamp load, max. Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms; max.	·	300 m; for technological functions: No
Short-circuit protection No; to be provided externally Switching capacity of the outputs with resistive load, max. on lamp load, max. Output delay with resistive load "0" to "1", max. "1" to "0", max. 10 ms; max.	Digital outputs	
Switching capacity of the outputs • with resistive load, max. • on lamp load, max. Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms; max.	Number of digital outputs	6; Relays
 with resistive load, max. on lamp load, max. 30 W with DC, 200 W with AC Output delay with resistive load "0" to "1", max. "1" to "0", max. 10 ms; max. 10 ms; max. 	Short-circuit protection	No; to be provided externally
 on lamp load, max. Output delay with resistive load "0" to "1", max. "1" to "0", max. 10 ms; max. 10 ms; max. 	Switching capacity of the outputs	
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms; max.	with resistive load, max.	2 A
• "0" to "1", max. • "1" to "0", max. 10 ms; max. 10 ms; max.	• on lamp load, max.	30 W with DC, 200 W with AC
• "0" to "1", max. • "1" to "0", max. 10 ms; max. 10 ms; max.	Output delay with resistive load	
• "1" to "0", max. 10 ms; max.	• "0" to "1", max.	10 ms; max.
Switching frequency	• "1" to "0", max.	
	Switching frequency	

and the produce authorite with reciptive lead many	411-
of the pulse outputs, with resistive load, max.	1 Hz
Relay outputs	
Number of relay outputs	6
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
Cable length	F00
• shielded, max.	500 m
• unshielded, max.	150 m
Analog inputs	
Number of analog inputs	2
Input ranges	
Voltage	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	≥100k ohms
Cable length	
• shielded, max.	100 m; twisted and shielded
Analog outputs	
Number of analog outputs	0
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	10 bit
 Integration time, parameterizable 	Yes
 Conversion time (per channel) 	625 µs
Encoder	
Connectable encoders	
2-wire sensor	Yes
1. Interface	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
• RJ 45 (Ethernet)	Yes
Protocols	
PROFINET IO Controller	Yes
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	Yes
AS-Interface	Yes
Protocols (Ethernet)	165
TCP/IP	Yes
Open IE communication	100
TCP/IP	Yes
• ISO-on-TCP (RFC1006)	Yes
• UDP	Yes
Web server	
supported	Yes
User-defined websites	Yes
Further protocols	
MODBUS	Yes
communication functions / header	
S7 communication	Voe
• supported	Yes Yes
as serveras client	Yes
	160
Test commissioning functions	
Status/control	

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Status/control variable	Yes
• Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	
• Forcing	Yes
Diagnostic buffer	
• present	Yes
Integrated Functions	
Counter	
Number of counters	4
Counting frequency, max.	100 kHz
Frequency measurement	Yes
controlled positioning	Yes
PID controller	Yes
Number of alarm inputs	4
Potential separation	
Potential separation digital inputs	
 Potential separation digital inputs 	500V AC for 1 minute
between the channels, in groups of	1
Potential separation digital outputs	
Potential separation digital outputs	Relays
between the channels	No
Permissible potential difference	
between different circuits	500 V DC between 24 V DC and 5 V DC
EMC	
Interference immunity against discharge of static electricity	
 Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 	Yes
 Test voltage at air discharge 	8 kV
Test voltage at contact discharge	6 kV
Interference immunity to cable-borne interference	
 Interference immunity on supply lines acc. to IEC 61000-4-4 	Yes
Interference immunity on signal cables acc. to IEC 61000-4-4	Yes
Interference immunity against voltage surge	
 Interference immunity on supply lines acc. to IEC 61000-4-5 	Yes
	o induced by high frequency fields
 Interference immunity against conducted variable disturbance Interference immunity against high-frequency 	Yes
radiation acc. to IEC 61000-4-6	100
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes; Group 1
• Limit class B, for use in residential areas	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-20 °C
• max.	60 °C
 horizontal installation, min. 	-20 °C

 horizontal installation, max. 	60 °C
 vertical installation, min. 	-20 °C
 vertical installation, max. 	50 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	
 Operation, min. 	795 hPa
 Operation, max. 	1 080 hPa
 Storage/transport, min. 	660 hPa
 Storage/transport, max. 	1 080 hPa
Altitude during operation relating to sea level	
 Installation altitude, min. 	-1 000 m
 Installation altitude, max. 	2 000 m
Relative humidity	
Operation, max.	95 %; no condensation
Vibrations	
 Vibration resistance during operation acc. to IEC 60068-2-6 	2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
 Operation, tested according to IEC 60068-2-6 	Yes
Shock testing	
• tested according to IEC 60068-2-27	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
Pollutant concentrations	
 SO2 at RH < 60% without condensation 	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
configuration / header	
configuration / programming / header	
Programming language	
— LAD	Yes
— FBD	Yes
— SCL	Yes
programming / cycle time monitoring / header	
adjustable	Yes
Dimensions	
Width	90 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	385 g
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