

DC Motor / Full Bridge Driver	TMC7300	MAX22201	MAX22202	MAX22207	MAX22211	MAX22212	MAX22203	MAX22205
No. of Channels / Motors	2 1	1	1	1	2	1	2	1
Supply Voltage	2...11 V	3...36 V	3...36 V	3...36 V	4,5...36 V	4,5...36 V	4,5...65 V	4,5...65 V
IO Voltage	2...5,25 V	1,8 V	1,8 V	1,8 V	1,8 V	1,8 V	1,8 V	1,8 V
Motor Current, max. (rms, cont.)	2x 1 A 1x 2 A	2 A	2 A	2 A	2 A	4 A	2 A	4 A (24V)
Motor Current, max. (peak)	2x 1,7 A 1x 2,4 A	3,5 A	3,5 A	3,5 A	3,8 A	7,6 A	3,8 A	7,6 A
R DS on	HS 170 mΩ LS 170 mΩ	HS 150 mΩ LS 150 mΩ	HS 150 mΩ LS 150 mΩ	HS 150 mΩ LS 150 mΩ	HS 125 mΩ LS 125...220 mΩ	HS 63 mΩ LS 63...110 mΩ	HS 150 mΩ LS 150 mΩ	HS 75 mΩ LS 75 mΩ
Control Interface	UART, 2x (IN1+IN2)	IN1+IN2	PH+EN	IN1+IN2	2x (IN1+IN2+EN)	IN1+IN2+EN	2x (IN1+IN2+EN)	IN1+IN2+EN
ICS Integrated Current Sense	-	X	X	X	X	X	X	X
CSO Current Sense Output	-	X	X	X	X	X	X	X
CDR Current Drive Regulation	X	X	X	X	X	X	X	X
CDRout Current Monitor Output	-	-	-	X	X	X	X	X
Configurable Off Time for CDR	-	X	-	-	-	-	X	X
Adjustable CDR Current Levels	32 (UART)	-	-	-	2	16	-	16
Multiple Decay Modes	-	-	-	-	4	4	4	4
OCP Over Current Protection	X	X	X	X	X	X	X	X
UVLO Undervoltage Lockout	X	X	X	X	X	X	X	X
Thermal Warning [TJ]	+120°C	-	-	-	-	-	-	-
TSD Thermal Shutdown [TJ]	+150°C	+165°C	+165°C	+165°C	+165°C	+165°C	+155°C	+155°C
Temperature Range	-40...+125°C	-40...+125°C	-40...+125°C	-40...+125°C	-40...+125°C	-40...+125°C	-40...+125°C	-40...+125°C
Package	QFN20 3x3mm	TDFN12 3x3 mm	TDFN12 3x3 mm	TDFN12 3x3 mm	TQFN32 5x5 mm	TQFN32 5x5 mm	TQFN38 5x7mm	TQFN38 5x7mm
Order Code	TMC7300-LA	MAX22201ATC+	MAX22202ATC+	MAX22207ATC+	MAX22211ATJ+	MAX22212ATJ+	MAX22203ATU+	MAX22205ATU+
Related Evaluation Kit	TMC7300-EVAL-KIT	MAX22201EVKIT#	MAX22202EVKIT#	MAX22207EVKIT#	MAX22211EVKIT#	n.a.	MAX22203EVKIT#	MAX22205EVKIT#

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