

**Bill of materials**
**Table 1. AEK-POW-BM63EM bill of materials**

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	2	C1, C2	47uF	WCAP-PSLP Aluminum Polymer Capacitor, V-Chip SMT, D6.3 x H7.7mm, 47µF, 35V	WE	875105645005
2	8	C4, C8, C9, C10, C11, C12, C30, C170	10uF	1210 - 50V - X7R Class II	WE	885012209073
3	38	C13, C16, C23, C27, C37, C39, C41, C44, C47, C49, C51, C53, C55, C58, C60, C62, C64, C66, C68, C70, C133, C139, C141, C143, C145, C148, C150, C152, C153, C156, C157, C159, C160, C161, C165, C166, C197, C207	10nF	0603 - 50V - X7R Class II	WE	885012206089
4	20	C14, C36, C222, C223, C224, C225, C226, C227, C228, C229, C230, C231, C232, C233, C234, C235, C236, C237, C238, C239	47nF	0603 - 50V - X7R Class II	WE	885012206093
5	5	C15, C215, C217, C219, C221	10uF	0805 - 25V	TAIYO YUDEN	TMK212BC6106MG-T
6	4	C17, C28, C31, C34	47uF	1210 - 16V - X5R Class II	WE	885012109011
7	7	C18, C19, C43, C72, C73, C135, C137	2.2uF	0805 - 25V - X7R Class II	WE	885012207079
8	12	C20, C57, C106, C107, C177, C178, C179, C182, C184, C185, C186, C189	4.7uF	0805 - 25V - X5R Class II	WE	885012107018
9	71	C21, C22, C26, C29, C32, C38, C40, C42, C45, C46, C48, C50, C52, C54, C56, C59, C61, C63, C65, C67, C69,	100nF	0603 - 50V - X7R Class II	WE	885012206095

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
		C71, C76, C79, C84, C85, C86, C87, C88, C92, C93, C99, C100, C101, C103, C105, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C162, C163, C164, C180, C181, C187, C188, C191, C196, C200, C206, C210, C213, C214, C216, C218, C220				
10	5	C24, C25, C74, C75, C192	22uF	1210 - 25V - X7R Class II	WE	885012209074
11	4	C33, C90, C95, CGS1	4.7nF	0603 - 50V - X7R Class II	WE	885012206087
12	1	C35	3.3uF	1206 - 25V - X7R Class II	WE	885012208067
13	4	C77, C78, C102, C104	10uF	1206 - 50V - X5R Class II	WE	885012108022
14	3	C80, C132, C138	N.M.	0603	N.A.	N.A.
15	1	C81	1nF	0603 - 50V - X7R Class II	WE	885012206083
16	12	C82, C83, C97, C98, C144, C147, C151, C155, C193, C202, C203, C212	22pF	0603 - 50V - NP0 Class I	WE	885012006053
17	4	C89, C91, C94, C96	47pF	0603 - 50V - NP0 Class I	WE	885012006055
18	1	C108	3.3uF	0805 - 25V - X5R Class II	WE	885012107017
19	3	C127, C129, C136	100nF	0603 - 100V - X7R Class II	WE	885012206120
20	1	C128	100pF	0603 - 100V - X7R Class II	WE	885012206102
21	1	C130	4.7uF	1206 - 50V - X7R Class II	WE	885012208094
22	1	C131	2.2uF	1210 - 100V - X7R Class II	WE	885012209071
23	1	C134	220nF	0603 - 50V - X7R Class II	WE	885012206125
24	10	C140, C146, C154, C190, C194, C198, C199, C204, C208, C209	1uF	0805 - 50V - X7R Class II	WE	885012207103

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
25	6	C142, C149, C195, C201, C205, C211	N.M.	1206	N.A.	N.A.
26	4	C158, C167, C168, C169	2.2nF	0603 - 50V - X7R Class II	WE	885012206085
27	1	C171	68nF	0603 - 50V - X7R Class II	WE	885012206094
28	1	C172	33pF	0603 - 50V - NP0 Class I	WE	885012006054
29	10	C173, C174, C175, C240, C241, C242, C243, C244, C245, C246	6.8nF	0603 - 50V - X7R Class II	WE	885012206088
30	2	C176, C183	N.M.	0805 - xxV - xxxx	N.A.	N.A.
31	1	CN1	Con 7P	2.54mm - 1 row - KK254 - Male	WE	61900711121
32	2	CN2, CN3	Con 2P	2.54mm - 1 row - KK254 - Male	WE	61900211121
33	1	D1	SMCJ24CA-TR, SMC - NP	SMC TVS - 24VDC - Bidirectional	ST	<a href="#">SMCJ24CA-TR</a>
34	1	D2	SM4T18AY, SMA	SMA TVS - 15VDC - Unidirectional	ST	<a href="#">SM4T18AY</a>
35	2	D3, D4	STPS30L30DJF- TR< PowerFLAT 5x6_WF type C	30 V, 30 A high efficiency PowerFLAT power Schottky diode	ST	<a href="#">STPS30L30DJF-TR</a>
36	9	D5, D14, D19, D20, D21, D22, D23, D24, D26	Green	0805 - Led Green - 3.2V	WE	150080GS75000
37	2	D6, D8	STPS5H100AFY, SOD-128 FLAT	Automotive 100V, 5A Power Schottky Rectifier	ST	<a href="#">STPS5H100AFY</a>
38	5	D7, D9, D13, D36, D41	Yellow	0805 - Led Yellow - 2V	WE	150080YS75000
39	1	D10	STPS1045SFY, TO-277A	Automotive 45V, 10A Power Schottky Rectifier	ST	<a href="#">STPS1045SFY</a>
40	5	D11, D28, D30, D37, D42	Blue	0805 - Led Blue - 3.2V	WE	150080BS75000
41	1	D12	STPS340U, SMB	SMB Power Schottky Rectifier - 40VDC - Unidirectional	ST	<a href="#">STPS340U</a>
42	5	D15, D29, D31, D35, D40	Amber	0805 - Led Amber - 2V	WE	150080AS75000
43	3	D16, D34, D39	Red	0805 - Led Red - 2V	WE	150080RS75000
44	2	D17, D18	ESDCAN24-2BLY, SOT23	Automotive dual- line TVS in SOT23-3L for CAN bus	ST	<a href="#">ESDCAN24-2BLY</a>

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
45	2	D25, D33	SMA6T68AY, SMA	SMA TVS - 68VDC - Unidirectional	ST	SMA6T68AY
46	1	D27	SZMM3Z4V7T1G	4.7V Zener Voltage Regulators, 300mW	Onsemi	SZMM3Z4V7T1G
47	1	D32	BZT585B11T-7	11V Zener Voltage Regulators, 350mW	DIODES	BZT585B11T-7
48	1	F1	0451003.MRL	451/453 Series -Very Fast-Acting Fuse -3A	LittleFuse	0451003.MRL
49	16	FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9, FB10, FB11, FB12, FB13, FB14, FB15, FB16	1K@100MHz	Ferrite Beads Multi-Layer Power 1KOhm 25% 100MHz 1.5A 0.15Ohm DCR 0805	TDK	MPZ2012S102ATD25
50	2	ISOH, ISOL	USB 2.0 Type A Receptacle	USB 2.0 Type A, Receptacle, Horizontal, THT	WE	61400416021
51	1	J1	Con JTAG	2.54mm - IDC, Male Box Header WR-BHD, THT, Vertical	WE	61201421621
52	10	JP2, JP3, JP4, JP22, JP23, JP24, JP25, P4, P5, P9	Header 2p 2.54, Jumper 2p	2.54mm - WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 2p, THT Vertical 2 pins Header, Pitch 2.54 mm, Single Row, 2.54mm - Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 2p	WE	61300211121
53	7	JP6, JP7, JP8, JP9, JP10, JP13, JP21	0	0805_Jumper 3p Closed SMD	Vishay	RCC08050000Z0EA
54	20	JP11, JP12, JP14, JP15, JP16, JP17, JP18, JP19, JP20, R26, R27, R65, R70, R100, R104, R105, R109, R126, R190, R219	0	0603_Jumper 2p Closed SMD, 0603 - ±1% - 0.1W	Panasonic	ERJ3GEY0R00V
55	1	L1	1uH	WE-LHMI SMT Power Inductor, size 7050, 1uH, 11.4A, 8.3mOhm	WE	74437346010
56	2	L2, L3	15uH	WE-LHMI SMT Power Inductor, size 7050, 15uH, 3.6A, 81mOhm	WE	74437349150
57	1	L4	3.3uH	WE-LHMI SMT Power Inductor,	WE	74437349033

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
				size 7050, 3.3uH, 7.5A, 19mOhm		
58	1	L5	10uH	WE-LHMI SMT Power Inductor, size 7050, 10uH, 4.05A, 27mOhm	WE	74437349100
59	9	L6, L7, L9, L10, L12, L13, L14, L15, L16	60	WE-CBF SMT EMI Suppression Ferrite Bead. 60 Ohm, 500mA	WE	74279267
60	2	L8, L11	51uH	WE-SLM SMT Common Mode Line Filter - 51uH	WE	744242510
61	1	L17	2.2uH	WE-PD2A SMT Power Inductor, size 4352, 2.2uH, 2.5A, 34mOhm	WE	784773022
62	1	P1	Con 2p 5.08_green	5.08mm - WR-TBL Series 2135 - Horizontal Entry Modular	WE	691213510002
63	1	P2	Header 4p 2.54	2.54mm - WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 4p	WE	61300411121
64	1	P3	65100516121	WR-COM Mini USB 2.0 Type B SMT Horizontal 5 Contacts	WE	65100516121
65	1	P6	Con 30p_2.00	2.00mm - WR-WTB - Male Dual Row Horizontal Shrouded Header w. positive locking	WE	62403021722
66	1	P7	Con 8p_2.00	2.00mm - WR-WTB THT Male Horizontal Shrouded Header with positive locking, Dual Row, pitch 2mm, 8pins	WE	62400821722
67	1	Q1	STD45P4LLF6AG , DPAK_TO-252	Automotive-grade P-channel -40 V, 12 mΩ typ., -50 A STripFET™ F6 Power MOSFET in a DPAK package	ST	STD45P4LLF6AG
68	1	Q2	STL105N4LF7AG, PowerFLAT 5x6_WF type C	Automotive-grade N-channel 40 V, 3.0 mΩ typ., 105 A STripFET™ F7 Power MOSFET in a PowerFLAT™ 5x6 package	ST	STL105N4LF7AG
69	11	Q3, Q4, Q5, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29	STR2N2VH5, SOT23	N-channel 20 V, 0.025 Ω typ., 2.3 A STripFET™ H5 Power MOSFET	ST	STR2N2VH5

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
				in a SOT-23 package		
70	1	Q6	STL4P3LLH6, POWERFLAT_2X 2_STM	P-channel 30 V, 48 mΩ typ., 4 A, STripFET H6 Power MOSFET in a PowerFLAT 2x2 package	ST	STL4P3LLH6
71	1	Q7	STL6N3LLH6, POWERFLAT_2X 2_STM	N-channel 30 V, 0.021 Ω typ., 6 A STripFET™ H6 Power MOSFET in a PowerFLAT™ 2x2 package	ST	STL6N3LLH6
72	1	Q8	2STR2160, SOT23	PNP Low voltage fast-switching power transistor 60V 1A	ST	2STR2160
73	1	Q9	STL8N10LF3, PowerFLAT 5x6_WF type C	Automotive-grade N-channel 100 V, 25 mΩ typ., 7.8 A STripFET™ F3 Power MOSFET in a PowerFLAT™ 5x6 package	ST	STL8N10LF3
74	1	Q10	STD105N10F7AG , DPAK_TO-252	Automotive-grade N-channel 100 V, 6.8 mΩ typ., 80 A, STripFET™ F7 Power MOSFET in a DPAK package	ST	STD105N10F7AG
75	10	Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q21	STL7N6F7, POWERFLAT_2X 2_STM	N-channel 60 V, 21 mΩ typ., 7 A STripFET™ F7 Power MOSFET in a PowerFLAT™ 2x2 package	ST	STL7N6F7
76	1	Q20	2STF1360, SOT89	NPN Low voltage fast-switching power transistors	ST	2STF1360
77	1	R2	22K	0603 - ±1% - 0.25W	Panasonic	ERJ-UP3F2202V
78	15	R3, R7, R9, R14, R22, R33, R34, R72, R92, R173, R175, R181, R183, R185, RG1	1K	0603 - ±1% - 0.25W	Panasonic	ERJPA3F1001V
79	1	R4	150K	0603 - ±5% - 0.25W	Panasonic	ERJ-PA3J154V
80	1	R5	2.2	0603 - ±5% - 0.25W	Panasonic	ERJ-PA3J2R2V
81	1	R6	9.1K	0603 - ±1% - 0.25W	Panasonic	ERJ-PA3F9101V
82	5	R8, R246, R248, R250, R252	470	0603 - ±1% - 0.125W	Panasonic	ERJH3EF4700V

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
83	3	R10, R71, RPD1	100K	0603 - $\pm 1\%$ - 0.2W	Panasonic	ERJP03F1003V
84	2	R11, R17	5.1K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-3EKF5101V
85	6	R12, R98, R103, R106, R107, R108	1.5K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-PA3F1501V
86	5	R13, R32, R69, R220, R225	N.M.	0603	N.A.	N.A.
87	3	R15, R16, R19	30K	0603 - $\pm 1\%$ - 0.33W, 0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-PA3F3002V
88	11	R18, R57, R59, R170, R178, R200, R201, R202, R230, R231, R232	3.3K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-PA3F3301V
89	45	R23, R25, R28, R35, R36, R37, R38, R39, R42, R43, R113, R116, R118, R120, R123, R127, R129, R132, R135, R139, R141, R144, R150, R153, R157, R196, R197, R199, R204, R205, R206, R210, R212, R213, R214, R226, R227, R229, R234, R235, R236, R240, R242, R243, R244	100	0603 - $\pm 1\%$ - 0.125W	Panasonic	ERJH3EF1000V
90	1	R24	1.6K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-UP3F1601V
91	1	R29	7.5K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-UP3F7501V
92	20	R30, R31, R40, R53, R56, R61, R64, R66, R75, R80, R82, R87, R88, R93, R143, R207, R208, R237, R238, RMREG	N.M.	0603	N.A.	N.A.
93	1	R41	0	0603 - jumper - 1A	Panasonic	ERJH3G0R00V
94	22	R44, R45, R67, R68, R96, R145, R188, R189, R191, R192, R198, R209, R217, R218, R223, R224, R228, R239, R245, R247, R249, R251	10K	0603 - $\pm 1\%$ - 0.2W	Panasonic	ERJP03F1002V

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
95	3	R46, R48, R112	0	0805 - jumper - 0.25W	Vishay	RCC08050000Z0EA
96	4	R47, R49, R171, R179	N.M.	0805	N.A.	N.A.
97	7	R51, R52, R54, R77, R78, R84, R85	22	0603 - $\pm 1\%$ - 0.125W	Panasonic	ERJH3EF22R0V
98	5	R58, R110, R163, R164, R165	3.9K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ3EKF3901V
99	7	R62, R63, R94, R95, R97, R101, R102	4.7K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F4701V
100	1	R73	680	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F6800V
101	2	R74, R81	47K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F4702V
102	12	R76, R79, R83, R86, R121, R124, R131, R133, R186, R187, R215, R216	60.4	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ3EKF60R4V
103	1	R89	12K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-3EKF1202V
104	4	R90, R91, R158, R162	10	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F10R0V
105	1	R99	2.2K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-3EKF2201V
106	1	R111	10K	1206 - $\pm 1\%$ - 0.66W	Panasonic	ERJUP8F1002V
107	5	R114, R169, R177, R203, R233	2.7K	0603 - $\pm 1\%$ - 0.1W	Vishay	MCT06030C2701FP500
108	14	R115, R117, R119, R122, R125, R128, R130, R134, R137, R140, R142, R149, R151, R156	39	2010 - $\pm 1\%$ - 1.25W	TE Connectivity	CRGP2010F39R
109	3	R136, R193, R195	6.2K	0805 - $\pm 1\%$ - 0.5W	Panasonic	ERJP06F6201V
110	1	R138	18K	0603 - $\pm 1\%$ - 0.2W	Panasonic	ERJP03F1802V
111	8	R146, R147, R148, R159, R160, R161, R172, R180	10K	0805 - $\pm 1\%$ - 0.5W	Panasonic	ERJP6WF1002V
112	3	R152, R154, R155	1.5K	2010 - $\pm 1\%$ - 2W	TE Connectivity	35021K5FT
113	3	R166, R167, R168	10K	0603 - $\pm 1\%$ - 0.1W	TDK	NTCG163JH103HTDS
114	2	R174, R182	1R	1206 - $\pm 1\%$ - 0.75W	Bourns	CHP1206QFW-1R00ELF
115	2	R176, R184	47R	1206 - $\pm 1\%$ - 0.75W	Bourns	CHP1206AFX-47R0ELF

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
116	1	R194	750	0603 - $\pm 0.5\%$ - 0.25W	Panasonic	ERJUP3D7500V
117	2	R211, R241	110K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F1103V
118	1	RHOT1	47	2512 - $\pm 5\%$ - 1W	TE Connectivity	352047RJT
119	2	S1, S2	ButtonSwitch	Switch	WE	430152043826
120	3	T1, T2, T3	120uH	Pulse Transformers 120uH	Sumida America Inc.	ESMIT-4180/A
121	1	U2	SPSB100BTR, QFN56 8x8x1mm	Automotive Power management IC for highly integrated processors (1Boost+3Buck+2 LDO)	ST	SPSB100BTR/SPSB100G
122	1	U3	SPC58NN84E7R MHBR, LQFP176 24x24x1.4mm	32-bit Power Architecture microcontroller for automotive ASIL-D applications	ST	SPC58NN84E7RMHBR
123	1	U4	STM6315SDW13 F, SOT143-4	STMICROELECTRONICS - STM6315SDW13 F - Reset Circuit, Active-Low, Open-Drain, 1V to 5.5V, 2.93V Threshold, 1 Monitor	ST	STM6315SDW13F
124	2	U5, U6	MCP2542WFD	CAN FD Transceiver with Wake-up Pattern (WUP) Option	Microchip	MCP2542WFD
125	1 N.M.	U7	FT2232HL	USB Hi-Speed to Dual Channel Serial UART/ FIFO/ JTAG/SPI/I2C	FTDI Chip	FT2232HL NOT mounted
126	8	U8, U9, U10, U12, U13, U14, U17, U18	SN74LVC1T45DC K	Single-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation and 3-State Outputs	Texas Instruments	SN74LVC1T45DCK
127	5	U11, U20, U21, U26, U29	USBLC6-2SC6Y, SOT23-6L	Automotive ESD protection for high speed interfaces.	ST	USBLC6-2SC6Y
128	1	U15	LD1117S33TR, SOT-223	The LD1117330TR is a low drop voltage regulator able to provide up to 800 mA of output current. Vout is 3.3V.	ST	LD1117S33TR
129	1	U16	M93S46- WMN6TP, SO-8	1Kbit (64x16) Serial Microwire Bus EEPROM	ST	M93S46-WMN6TP

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
				With Block Protection		
130	1	U19	L9963F-TR, TQFP64	Automotive chip for battery management applications with daisy chain up to 31 devices	ST	L9963F-TR
131	2	U22, U23	STGAP2GSC, SO-8W	Galvanically isolated 3 A single gate driver for Enhancement mode GaN FETs_Gate driving voltage up to 15 V	ST	STGAP2GSC
132	1	U24	176881212	MagI3C Power Module FISM – Fixed Isolated SMT Module, Vin 4.5V - 5.5V - Vout 12V - Iout 84mA	WE	176881212
133	2	U25, U28	L9963T, SO16N	Automotive general purpose SPI to isolated SPI transceiver	ST	L9963T
134	1	U27	140357145300	WL-OCPT Optocoupler Phototransistor, SOP4, 1 Channel, DC, 35V, 60mA	WE	140357145300
135	1	U30	LM2902WYDT, SO14	Low-power quad operational amplifier	ST	LM2902WYDT
136	1	X1	40Mhz	WE-XTAL Quartz Crystal, SMT, CFPX-104, 40MHz, +/-20ppm	WE	830059537
137	1	X2	12Mhz	WE-XTAL Quartz Crystal, SMT, CFPX-104, 12MHz, +/-30ppm	WE	830055999
138	8	for blister	609002115121	WR-PHD 2.54 mm Multi-Jumper Jumper with Test Point	WE	609002115121
139	4	for blister	970100365	WA-SPAI Plastic Spacer Stud, metric, internal/ internal	WE	970100365
140	4	for blister	97790603211	WA-SCRW Pan Head Screw w. cross slot M3	WE	97790603211
141	1	for blister	624030213322	WR-WTB 2.00 mm Female Dual Row Terminal Housing w. positive locking	WE	624030213322

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
142	1	for blister	624008213322	WR-WTB 2.00 mm Female Dual Row Terminal Housing w. positive locking	WE	624008213322
143	1	for blister	62400113722DEC	WR-WTB 2.00 mm Female Dual Row Crimp Contact	WE	62400113722DEC
144	1	for blister	61900711621	WR-WTB 2.54 mm Female Terminal Housing	WE	61900711621
145	2	for blister	61900211621	WR-WTB 2.54 mm Female Terminal Housing	WE	61900211621
146	1	for blister	61900113722DEC	WR-WTB 2.54 mm Female Crimp Contact	WE	61900113722DEC

**IMPORTANT NOTICE – READ CAREFULLY**

STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice.

In the event of any conflict between the provisions of this document and the provisions of any contractual arrangement in force between the purchasers and ST, the provisions of such contractual arrangement shall prevail.

The purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgment.

The purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of the purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

If the purchasers identify an ST product that meets their functional and performance requirements but that is not designated for the purchasers’ market segment, the purchasers shall contact ST for more information.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, refer to [www.st.com/trademarks](http://www.st.com/trademarks). All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2026 STMicroelectronics – All rights reserved