

## BLE 5.1, 802.15.4 Modules BM833A/AF, BM833/F/E

BM833A (BM833AF), BM833 (BM833F, BM833E) Pin Functions:

BM833A	52811		BM833	52833		
pin#	pin #	name	pin#	pin#	pin	Descriptions
1	45	GND	1	B7	VSS	Ground
2		GND	2			Ground
3		GND	3			Ground
4		GND	4			Ground
5		GND	5			Ground
6	37	P025	6			NC
7	38	P026	7	G1	P0.26	GPIO
8	39	P027	8	H2	P0.27	GPIO
9	40	P028	9	B11	P0.28/AIN4	GPIO, Analog input
10	41	P029	10	A10	P0.29/AIN5	GPIO, Analog input
11	42	P030	11	B9	P0.30/AIN6	GPIO, Analog input
12	43	P031	12	A8	P0.31/AIN7	GPIO, Analog input
13		GND	13			Ground
14	36	VDD	14	B1	VDD	DC supply 1.7V to 3.6V
15		GND	15			Ground
16	2	P000	16	D2	P0.00/XL1	GPIO, connection for 32.768kHz crystal
17	3	P001	17	F2	P0.01/XL2	GPIO, connection for 32.768kHz crystal
18		GND	18			Ground
19		GND	19			Ground
20	5	P003	20	B13	P0.03/AIN1	GPIO, Analog input
21	6	P004	21	J1	P0.04/AIN2	GPIO, Analog input
22	4	P002	22	A12	P0.02/AIN0	GPIO, Analog input
23	7	P005	23	K2	P0.05/AIN3	GPIO, Analog input
24	9	P007	24	M2	P0.07	GPIO
25	8	P006	25	L1	P0.06	GPIO
26	11	P009	26	L24	P0.09/NFC1	GPIO, NFC antenna connection (nRF52832 only)
27	10	P008	27	N1	P0.08	GPIO
28		VDD	28		VDD	DC supply 1.7V to 3.6V
29	12	P010	29	J24	P0.10/NFC2	GPIO, NFC antenna connection (nRF52832 only)
30		GND	30			Ground
31	14	P011	31	Y23	P1.01	GPIO, used as UART RX on evaluation board
32	15	P012	32	W24	P1.02	GPIO, used as UART TX on evaluation board
33	17	P014	33	AC9	P0.14	GPIO
34	16	P013	34	T2	P0.11	GPIO
35	18	P015	35	AD10	P0.15	GPIO
36	19	P016	36	AC11	P0.16	GPIO
37	20	P017	37	AD12	P0.17	GPIO
38	21	P018	38	AD22	P1.00	GPIO
39	22	P019	39			NC

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40	24	P021/ RST	40	AC13	P0.18/RST	GPIO, configurable as RESET pin
41	23	P013	41	AD8	P0.13	GPIO
42	25	SWDCLK	42	AA24	SWDCLK	Serial Wire Debug clock input
43	26	SWDIO	43	AC24	SWDIO	Serial Wire Debug I/O
44	27	P022	44	AD18	P0.22	GPIO
45		GND	45			Ground
46	28	P023	46			NC
47	29	P024	47	AD20	P0.24	GPIO
			48	A14	P0.19	GPIO
			49	B15	P1.03	GPIO
			50			NC
			51	A16	P1.05	GPIO
			52	R1	P1.09	GPIO
			53	B17	P0.23	GPIO
			54	P2	P1.08	GPIO
			55	A20	P0.25	GPIO
			56	Y2	VDDH	High voltage power supply
			57			NC
			58	AD2	VBUS	5V input for USB3.3V regulator
			59	V2		NC
			60	AC17	P0.21	GPIO
			61	U24	P1.04	GPIO
			62	AD16	P0.20	GPIO
			63			NC
			64	U1	P0.12	GPIO
			65	R24	P1.06	GPIO
			66	P23	P1.07	GPIO
			67	AD6	D+	USB D+
			68	AD4	D-	USB D-