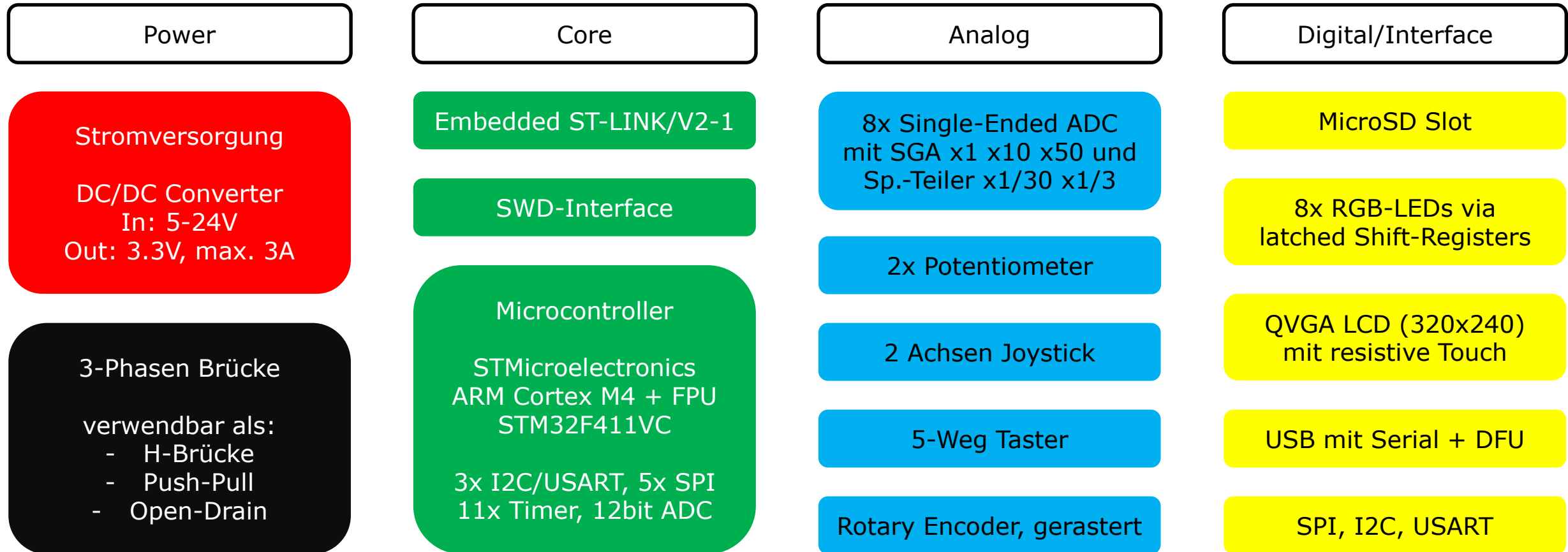


Spezifikation eigene Leiterplatte

Blockschaltbild



Spezifikation eigene Leiterplatte

Kostenrelevante Bauteile:
(ohne 0805 R / C)

Qty	VALUE	MF	DESCRIPTION	Dist.	Order Nr.	Price	Total
Power							
1	AP63203WU-7	Diodes inc	Schaltspannungsregler DCDC Conv HV Buck TSOT26 T&R 3K	Mouser	621-AP63203WU-7	0.76	0.76
1	7447779006	Wurth	Festinduktivitäten WE-PD 7345 6.8uH 2.91A .033Ohm	Mouser	710-7447779006	1.91	1.91
3	OZCH0020FF2E	Bel-Fuse	Rückstellbare Sicherungen - PPTC Fuse 0.2A Haltestrom 0.4A Auslösestrom 30V	Mouser	530-OZCH0020FF2E	0.067	0.201
2	B360A-13-F	Diodes inc	Schottky Dioden & Gleichrichter 60V 3A	Mouser	621-B360A-F	0.14	0.28
6	FM240A	Rectron	40V 2A SMB Diode	Mouser	583-FM240A	0.093	0.558
1	TB007-508-02BE	CUI	2-Pol Anschlussblock schraubbar, 5.08mm	Mouser	490-TB007-508-02BE	0.203	0.203
3	TB007-508-04BE	CUI	4-Pol Anschlussblock schraubbar, 5.08mm	Mouser	490-TB007-508-04BE	0.405	1.215
1	TB007-508-05BE	CUI	5-Pol Anschlussblock schraubbar, 5.08mm	Mouser	490-TB007-508-05BE	0.602	0.602
2	ESW227M050AH2AA	Kemet	Aluminium-Elektrolyt-Kondensatoren - Radial bedrahtet 50V 220uF 105C 5k Hour Radial	Mouser	80-ESW227M050AH2AA	0.314	0.628
1	EEU-FR1A471	Panasonic	Aluminium-Elektrolyt-Kondensatoren - Radial bedrahtet 10VDC 470uF 20% L/S=3.5mm	Mouser	667-EEU-FR1A471	0.244	0.244
2	ESW226M010AC3AA	Kemet	Aluminium-Elektrolyt-Kondensatoren - Radial bedrahtet 10V 22uF 105C 3k Hour Radial	Mouser	80-ESW226M010AC3AA	0.078	0.156
4	74279220601	Wurth	Ferritperle, 0805 [Metrisch 2012], 600 ohm, 2.1 A, Baureihe WE-MPSB, 0.08 ohm, ± 25%	Farnell	2467189	0.27	1.08
1	SMAJ28AQ-13-F	Diodes inc	ESD-Entstörer/TVS-Dioden 400W Transient Voltage Suppressor	Mouser	621-SMAJ28AQ-13-F	0.288	0.288
3			MOSFET NFET DPAK 60V 10A	Mouser		1	3
3			MOSFET PFET DPAK 60V 10A	Mouser		1.1	3.3
3	2N7002NXAKR	Nexperia	MOSFET 60V N-CHANNEL SGL TRENCH	Mouser	771-2N7002NXAKR	0.09	0.27
Core							
1	STM32F411VCT6	STM	ARM Mikrocontroller - MCU 16/32-BITS MICROS	Mouser	511-STM32F411VCT6	5.67	5.67
1	ABS25-32.768KHZ-6-T	Abracon	Quarze 32.768KHz 6pF 20ppm -40C +85C	Mouser	815-ABS25-32.768K6-T	0.466	0.466
2	SN65220DBVT	TI	ESD-Entstörer/TVS-Dioden Single USB Port	Mouser	595-SN65220DBVT	0.8	1.6
2	10118192-0002LF	Amphenol FCI	USB-Stecker MICRO USB B-TYPE	Mouser	649-10118192-0002LF	0.4	0.8
1	HC495DLF-8.00MHz	FOX	Quarze 8MHz 12pF -20C +70C 30ppm	Mouser	559-FOXSDLF/080-12	0.302	0.302
2	77311-118-02LF	FCI	CONN HEADER VERT 2POS 2.54MM	Mouser	649-77311-118-02LF	0.123	0.246
1	M20-7820646	Harwin	Socket & Kabelgehäuse 6 PIN SIL VERTICAL SOCKET TIN	Mouser	855-M20-7820646	0.728	0.728
1	STM32F103CBT6	STM	ARM Mikrocontroller - MCU 32BIT Cortex M3 128K MED Performance LN	Mouser	511-STM32F103CBT6	5.21	5.21
1	HC495DLF-8.00MHz	FOX	Quarze 8MHz 12pF -20C +70C 30ppm	Mouser	559-FOXSDLF/080-12	0.302	0.302
Analog							
2	PTV09A-4015U-B103	Bourns	Potentiometer 10K 20% 9MM CARBON POT	Mouser	652-PTV09A-4015UB103	0.68	1.36
1	FSM6JH	TE	Sensorschalter SPST OFF-(ON) Round pushbutton	Mouser	506-FSM6JH	0.11	0.11
1	SKRHABE010	Alps Alpine	Multi-direktionale Schalter 4-directn cntr push W/boss 200K Cycles	Mouser	688-SKRHAB	2.46	2.46
1	2765	Adafruit	Adafruit Zubehör Mini 2-Axis Analog Thumbstick	Mouser	485-2765	2.29	2.29
3	BAV99HMFHT116	ROHM	Dioden (Allzweck, Leistung, Schaltung) 100V Vrm; 500mA Ifm Swtch Diode SOT-23	Mouser	755-BAV99HMFHT116	0.062	0.186
1	PEC12R-2217F-S0024	Bourns	Encoder VERT 24DET 24PULSE 17.5mm SHAFT SPST SW	Mouser	652-PEC12R-2217F-S24	1.1	1.1
2	MCP6G04-E/ST	Microchip	Sonderverstärker Quad Selectable Gain Amplifiers	Mouser	579-MCP6G04-E/ST	0.94	1.88
Digital/Interface							
8	CLMVC-FKC-CGJIM569aBB7a343	Cree	Standard-LEDs - SMD RGB SMD	Mouser	941-CLMVG569ABB7A343	0.16	1.28
3	SN74HCS595PWR	TI	8-bit shift register with Schmitt-trigger inputs and 3-state output	Mouser	595-SN74HCS595PWR	0.46	1.38
1	M20-7820446	Harwin	Socket & Kabelgehäuse 4 PIN SIL VERTICAL SOCKET TIN	Mouser	855-M20-7820446	0.62	0.62
1	1140084168	Amphenol	Speicherkartenverbinder Micro SD 8 Pin PCB Gold	Mouser	523-114-00841-68	1.29	1.29
1			Display LCD Touch 2.4" QVGA	ebay	284089088933	8	8
						TOTAL	46.848