PROTO-ELECTRONICS.COM

Your prototype partner for all your PCB Assembly needs

Wachsbleiche 27, 49090 Osnabrück
49090 - Osnabrueck
GERMANY
Contact : Samimi Paria
Tel : 05419692399

Proto-Electronics, SAS with a capital of 50.000 EUR
14 rue de l'industrie - 67560 ROSHEIM (France)

Tel: +44 1202 006012
Email: contact@proto-electronics.com

Quote No.: DO11567

Client number:	**C010507**	Date:	**24/02/2021**
		Valid until:	**24/02/2021**

Your reference:

Project name:	**1**
Version:	**Version 1**

Summary

Delivery time:	**22-25 days - 31/03/2021**
Quantity of PCBAs:	20
Quantity of PCBs:	20
Number of component references:	29
Number of components per board:	177
Total number of components in the project:	3540

Quotation

Unit price excl. VAT:	67,465 €	**Total price excl. VAT:**	2 698,60
Quantity of PCBAs:	40	VAT: (20%)	539,72 €
		Total price incl. VAT:	3 238,32

PCB Summary

Quantities

Quantity of PCBAs	**20**
Quantity of PCBs	**20**

PCB characteristics

Size	**58.55 mm x 51.03 mm**
Base Materials	**FR4**
Thickness	**1.6 mm**
Layers	**2**
SMD sides	**TOP + BOT**
Copper ext	**35 μm**
Copper int	**without**
Finish	**HAL**
Specific stackup	**sans**

Marking

Silkscreen (ink)	**without**
Ink color	**without**
RoHs legend	**without**
UL legend	**without**
Date legend	**without**
Soldermask	**TOP + BOT**
Mask color	**green**
Peelable mask	**without**

Other options

Impedance control	**no**	Space between tracks	**> 0.20 mm**
Blind holes	**no**	Mini size holes	**> 0.20 mm**
Burried via		Carbone	**without**
Cross blind		Via Fill	**without**
Metallographic section	**no**	Contersunk holes	**without**
Edge plating	**no**	Cont. holes (qty/PCB)	**without**
Press-fit	**yes**	Gold fingers (thickness)	**without**
Class IPC-A-600	**Class 2**	Gold fingers (qty/PCB)	**without**
		Beveled edge	**without**

Gerber file

New folder.zip

Summary of components

No.	Designator	Reference	Manufacturer	Description	Qty
1	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R42, R44, R46, R48, R50, R52, R54	CRCW06030000Z0EAC	Vishay Dale	RES SMD 0 OHM JUMP 1/10W 0603	940
2	C5, C10, C57	GRM033R61E103MA12J	Murata Electronics	CAP CER 10000PF 25V X5R 0201	60
3	C20, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C77, C78, C79, C81, C82, C83, C84, C85, C86, C87	LMK063C6104KP-F	Taiyo Yuden	CAP CER 0.1UF 10V X6S 0201	460
4	C1, C2, C4, C6, C7, C8, C9, C11, C12, C13, C14, C15, C16, C17, C18, C21, C24, C25, C26, C27, C28, C29, C30, C31, C32, C37, C38, C39, C40, C51	JMK105BJ105MP-F	Taiyo Yuden	CAP CER 1UF 6.3V X5R 0402	600
5	C55, C56	EMK107BBJ106MA-T	Taiyo Yuden	CAP CER 10UF 16V X5R 0603	40
6	U2	1051	VIDEK	VIDEK - 1051 - Computer Cable, D Sub Mini Socket, 9 Way, D Sub Mini Plug, 25 Way, 6.56ft, 2m, White	20
7	LED3, LED4	150060RS75000	WURTH ELEKTRONIK	WURTH ELEKTRONIK - 150060RS75000 - LED, Red, SMD, 0603, 30 mA, 2 V, 625 nm	40
8	R51	CRCW02012K20JNED	Vishay Dale	RES SMD 2.2K OHM 5% 1/20W 0201	20
9	R41, R68	RC0201JR-072K7L	YAGEO	YAGEO - RC0201JR-072K7L - SMD Chip Resistor, 2.7 kohm, ± 5%, 50 mW, 0201 [0603 Metric], Thick Film, General Purpose	60
10	R62	CRCW0201200KFNED	VISHAY	VISHAY - CRCW0201200KFNED - SMD Chip Resistor, 200 kohm, ± 1%, 50 mW, 0201 [0603 Metric], Thick Film, General Purpose	20
11	J3	2040002-1	TE Connectivity AMP Connectors	CONN RCPT USB2.0 MICRO B SMD R/A	20
12	R53	ERJ1GNF3001C	PANASONIC	PANASONIC - ERJ1GNF3001C - SMD Chip Resistor, 3 kohm, ± 1%, 50 mW, 0201 [0603 Metric], Thick Film, Precision	20
13	R45, R47, R58	RC0201JR-07300RL	YAGEO	YAGEO - RC0201JR-07300RL - SMD Chip Resistor, 300 ohm, ± 5%, 50 mW, 0201 [0603 Metric], Thick Film, General Purpose	60
14	R49, R55, R56, R57	CRCW020141K2FNED	Vishay Dale	RES SMD 41.2K OHM 1% 1/20W 0201	100
15	R65	CRCW020149R9FNED	Vishay Dale	RES SMD 49.9 OHM 1% 1/20W 0201	20
16	BC832	BC832	Fanstel Corp.	RX TXRX MOD BLE 5 CHIP SMD	20
17	CHARGING	BQ24072TRGTR	Texas Instruments	IC BATT CHG LI-ION 1CELL 16QFN	20
18	CLOCK	DSC1001DI5-008.1920T	MICROCHIP TECHNOLOGY / MICREL	Oscillateurs d'horloge standard MEMS Oscillator, Low Power, -40C-85C, 10ppm	20
19	S1	JS102011SAQN	C & K COMPONENTS	C & K COMPONENTS - JS102011SAQN - Slide Switch, SPDT, On-On, Surface Mount, JS Series, 300 mA	20
20	D1	REF3312AIDCKR	Texas Instruments	IC VREF SERIES 0.15% SC70-3	20
21	J1	SHF-105-01-L-D-TH-TR	Samtec Inc.	CONN HEADER VERT 10POS 1.27MM	20

Summary of components

No.	Designator	Reference	Manufacturer	Description	Qty
22	LED1, LED2	SML-P11MTT86R	ROHM	ROHM - SML-P11MTT86R - LED, PICOLED, Yellow Green, SMD, 1005, 1 mA, 1.9 V, 569 nm	40
23	RESET	TL3780AF330QG	E-Switch	SWITCH TACTILE SPST-NO 0.02A 15V	20
24	ESD1, ESD2, ESD3, ESD4, ESD5, ESD6, ESD7	TPD4E1B06DRLR	TEXAS INSTRUMENTS	Suppresseurs ESD / diodes TVS Bidirectional Quad Ch High Spd ESD Prot	140
25	VCC3.3_DIG, VCC3.3_AN	TPS73233DBVT	Texas Instruments	IC REG LINEAR 3.3V 250MA SOT23-5	40

Liste of components you provide

No.	Designator	Reference	Manufacturer	Description	Qty
1	R43, R69	CR0201-JW-202G LF		Thick Film Resistors - SMD 2K 1% 250ppm	40
2	C3, C19, C22, C23, C33	GRM033R60J225M E47D		2.2uF 6.3v 0201	100
3	ADC1, ADC2, ADC3	AD7779ACPZ		Analog Devices AD7779ACPZ, 24 bit Serial ADC, 8-channel Differential Input, 64-Pin LFCSP	60
4	CH0, CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8, CH9, CH10, CH11, CH12, CH13, CH14, CH15, CH16, CH17, CH18, CH19, CH20, CH21, CH22, CH23, SUBJECT_GND, SUBJECT_GND_VD, ACTIVE_REF	SE11		SOLDER PAD RTM, drill 1,1mm, distributor Buerklin, 07F810	540