Bill of Materials						
Bill Oi	Project Number:	P234	Greenfield Tech Solutions Molendreef 33 4641CS Ossendrecht	0		
	Project Revision:	0.2 BAS_MainHub.PriPcb None	The Netherlands info@greenfieldtechsolutions.com		ann	Ab office
	Assembly Variant: Report Date:	None 22/05/30				
Part Number GTS	Designator C2, C3, C4, C5, C22,	Description	Manufacture Part Number	Footprint	Layer	Quantity
	C23 C24 C25 C37					
	C38, C39, C40, C52, C53, C54, C55, C66, C67, C68, C69, C75,					
	C76, C77, C78, C84, C85, C86, C87, C93, C94, C95, C96, C110.					
CA0001	C94, C95, C96, C110, C111, C112, C113, C119, C120, C121.	10µF 16V 10% XSR	GRM218R61C106KE15L	coeos	Top, Bottom	58
	C122, C128, C129, C130, C131, C137,					
	C138, C139, C140, C155, C156, C157, C158, C202, C232					
	C302, C402, C503, C504					
	C203, C204, C205, C206, C207, C208,					
	C209, C210, C211, C212, C213, C214, C233, C234, C235					
	C236, C237, C238, C239, C240, C241,					
CA0003	C242, C243, C244, C303, C304, C305, C306, C307, C308	1μF 16V 10% X5R	C1608KSR1C105KGBQAA	C0603	Bottom, Top	50
	C309, C310, C311, C312, C313, C314,					
	C403, C404, C405, C406, C407, C408, C409, C410, C411.					
	C412, C413, C414, C505, C506					
	C12, C13, C14, C15, C16, C17, C27, C28, C29, C30, C31, C32,					
CA0005	C42, C43, C44, C45, C46, C47, C57, C58	10 <sub>M</sub> F 35V 10% XSR	C2012X3R1V106K125AC	coeos	Top	30
	C59, C60, C61, C62, C160, C161, C162					
CA0012	C163, C164, C165 C201, C231, C301, C401, C501, C502	330μF 16V 20% 16mΩ 4100mA	145VPG330MX	EC_E7	None, Top	6
	C401, C501, C502 C71, C72, C73, C74, C80, C81, C82, C83,					
	C89, C90, C91, C92, C98, C99, C100, C101, C115, C116					
CA0021	C117, C118, C124,	10nF 50V 10% X7R	CORDSC1COKSRAC	coeos	Bottom, Top	32
	C133, C134, C135, C136, C142, C143,					
CAD024 CAD025	C144, C145 C7, C8, C9, C10 C11	10 <sub>M</sub> F 63V 10% X7R 10 <sub>M</sub> F 25V 10% X5R	GRM32ER71J106KA12 CL31A106KAHNNNE	C1210 C1206	Top Top	4
	C1, C18, C21, C33, C36, C48, C51, C63,	,				
	C154, C166, C215, C216, C217, C218, C219, C220, C221					
	C222, C223, C224, C245, C246, C247.					
CA0029	C248, C249, C250, C251, C252, C253, C254, C315, C316.	100nF 50V 10% X7R	CGA283X7R1H104K0508B	CD402	Top, Bottom	46
	C318, C320, C321, C322, C323, C324					
	C415, C416, C417, C418, C419, C420, C421, C422					
CA0030 CA0031	C20, C168 C6, C19, C26, C41,	1.2nF50V10%X7R 1nF50V1%C0G	GCM155R71H122KA37D GRT155SC1H102FA02D	CD402 CD402	Top Top	2
CA0038	C56, C159, C167 C70, C79, C88, C97, C114, C123, C132,	4.7µF 100V 10% XSR	HMC32584738M-PE	C1210	Bottom, Top	
	C141 C102, C104, C106,					
CA0039	C108, C146, C148, C150, C152 C103, C105, C107.	10µF 63V 10% X7R	CL32B106KMWWWWE	C1210	Тор	
CA0051	C109, C147, C149, C151, C153	22µF 63V 20% X7R	KRM55WR71J226A0H01K	C2220	Тор	
CA0052 CA0053 CA0054	C34 C49	56pF 16V 10% X7R 100pF 16V 10% X7R 150pF 16V 5% COG	GRM022R71C566E14L GRM022R71C101E14L CNB02C151MGGRTH	CD402 CD402	Top Top	1
CA0055	C35, C50, C65 CO101, CO102,	2.7nF 50V 5% X7R	GRM155R71H272JA01D	CD402	Тор	3
C00017	CO103, CO104, CO105, CO106,	USB C connector Plug	USB4151-GF-C	USB4151-GF-C	Bottom	
C00021	CO107, CO108 CO351, CO352, CO353, CO354	USB C connector Receptacle	USB4070-30-C	USB4070-30-C	Тор	4
C00028 C00029	J1, J501 J2, J502	Headers Angled 2.54MM Holes for Headers 2.54MM	10129382-9100018LF	Header Angled-2x5 Holes-2x5	Top Top	2
D10002	D101, D102, D103, D104, D105, D106, D107, D108, D351,	USB 2 TVS Diode	TPD2EUSB30DRTR	501-3	Bottom, Top	12
	D352, D355, D356 D109, D110, D111, D112, D113, D114,					
DI0007	D115, D116, D353, D354, D357, D358	USB 3 TVS Diode	PUSB3FA32	SDT-1176-1	Top, Bottom	12
F0004 IC0014	F1, F2, F3, F4 IC201, IC231, IC301, IC401	32V/10A USB Interface, USB Hub Controller, USB 3.0	C1H10 USB55348-5000,UX	F1206 OFN-64	Bottom, Top Top, Bottom	4
IC0024 IC0031	IC2 IC1, IC3, IC4, IC5,	DC-DC 36/lin-12Vout/3A 3.8V TO 40V INPUT, 5A LOW IQ SYNCHRONOUS BUCK WITH	RPMB12-3.0 AP645015P-13	89W81 50-8-EP	Top Top	5
	IC14 IC101, IC102, IC103, IC104, IC105, IC106,	PROGRAMMABLE SOFT-START TIME	99-0400139-12	30-0P	ТОР	,
100039	IC104, IC105, IC106, IC107, IC108, IC351, IC352, IC353, IC354	TUSB542 USB Type-C 5 Gbps Redriver 2:1 MUX	TUS8542	320fN-18	Top, Bottom	12
100041	IC6, IC7, IC8, IC9, IC10, IC11, IC12, IC13	USB Type-C and USB PD Controller with Integrated Power Switches Optimized for Power Applications	TP5257500	QFNRJK-38	Bottom, Top	
IN0005 IN0008	L1, L3, L6	3.3µH 5A 30% 21mΩ	SRN6045TA-3R2Y SRN6045TA-1R2Y	SRN6045TA SRN6045TA	Top Top	3
IN0009 M00015	L5 L2, L4 M0506	1.5μH 7A 30% 11.7mΩ 2.2μH 6A 30% 15mΩ Outline of ZeroW	SRN604STA-2RZY RPI Zero W	SRNe045TA RSYZeroW_Layout	Top Top	2
MO0016 MO0017	M0502, M0503, M0504, M0505 M0501	RPI ZeroW Mounting Studs RPI ZeroW Header 1-40	9774030151R 9900002236265	CM4-M 891ZeroW_Pira	Top Top	4
RS0007 RS0011	R1, R5, R9, R13, R25 R17, R18, R19, R20	1000 1% 100mW 1000 1% 62.5mW	990000236365 WROSK1000FTL WROSK1000FTL	ROSCI ROSCI	Top Top Bottom, Top	5
RS0011 RS0015 RS0020	R21, R22, R23, R24 R2, R26 R501, R502	10KO 1% 62.5mW 12KO 1% 62.5mW 2.2KO 5% 62.5mW	WKO4K1003FTL RCD403FR-13139L MCMR04KG22_ITL	R0402 R0402	Top	2
RS0034 RS0035	R3, R27 R4, R28	20KΩ 1% 100mW 100PPM	MOVR940222 JTL ERI-502F2000X CRGCQ0402F2K2	80402 80402 80402	Top Top	2 2
RS0040 RS0041	R8, R12, R16 R6	2.2KD 1% 62.5mW 100PPM 22.1KD 1% 100mW 100PPM 69.8KD 1% 100mW 100PPM 27.4KD 1% 62.5mW 100PPM	RCD603FR-0722K1L CRCW06036W0FKEB	R0603 R0603	Top Top	3
RS0052 RS0054 RS0055	R10 R7 R11	27.4KΩ 1% 62.5mW 100PPM 10.5KΩ 1% 62.5mW 100PPM 5.62KΩ 1% 62.5mW 100PPM	ACD402FR-0727K4L CRCW040210K9FREDC CRCW04025K62FREDC	80402 80402 80402	Top Top	1 1
RS0056 RS0058	R15 R14	3.74KΩ 1% 62.5mW 100PPM	CRCW04023K74FNEDC 0402WCF12527CE	80402 80402	Top Top	1
Дрего	oved		Notes			382
Approved Notes						