

FAE

TECHNOLOGY

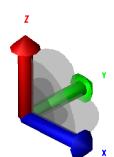
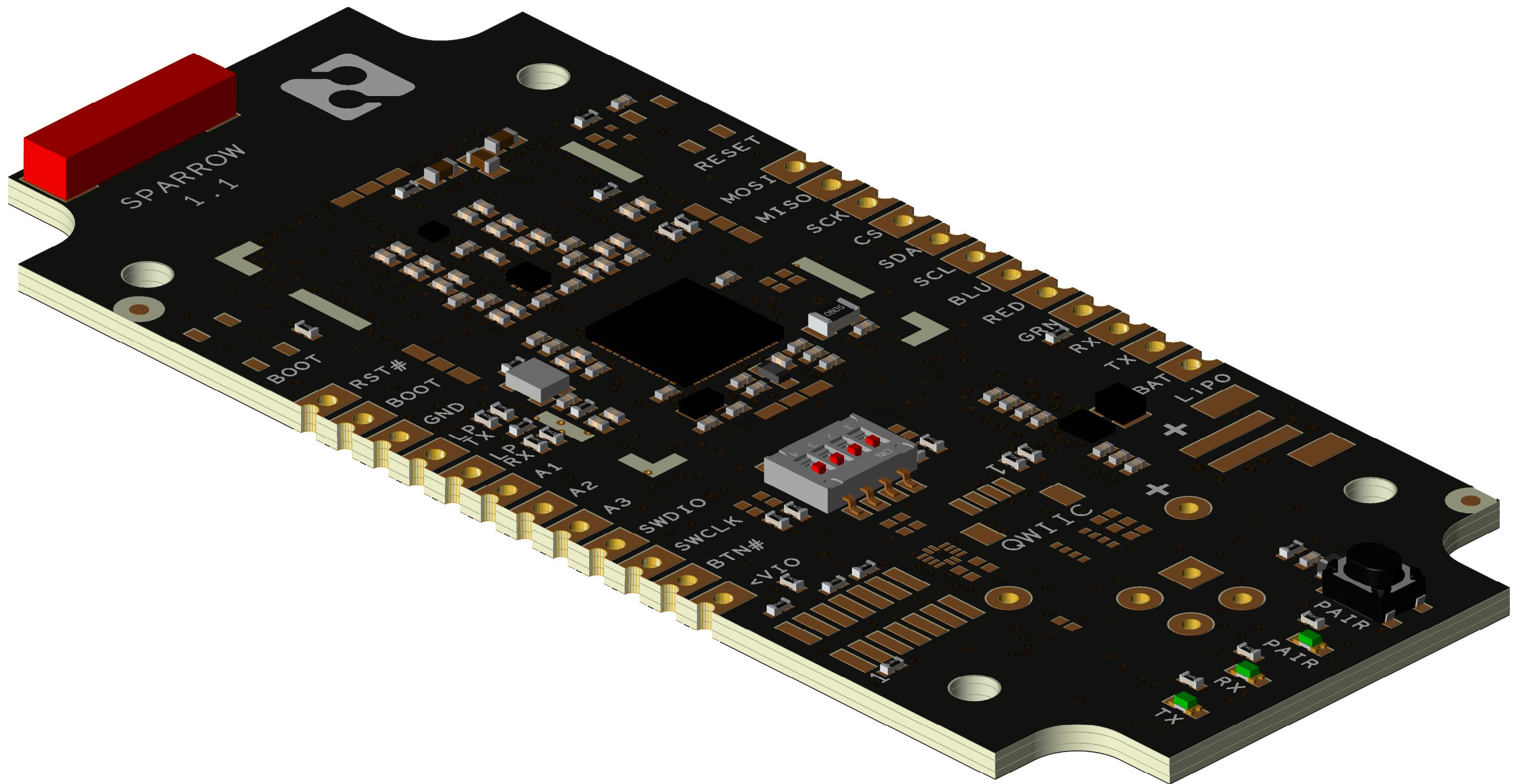
PCB DOCUMENTATION

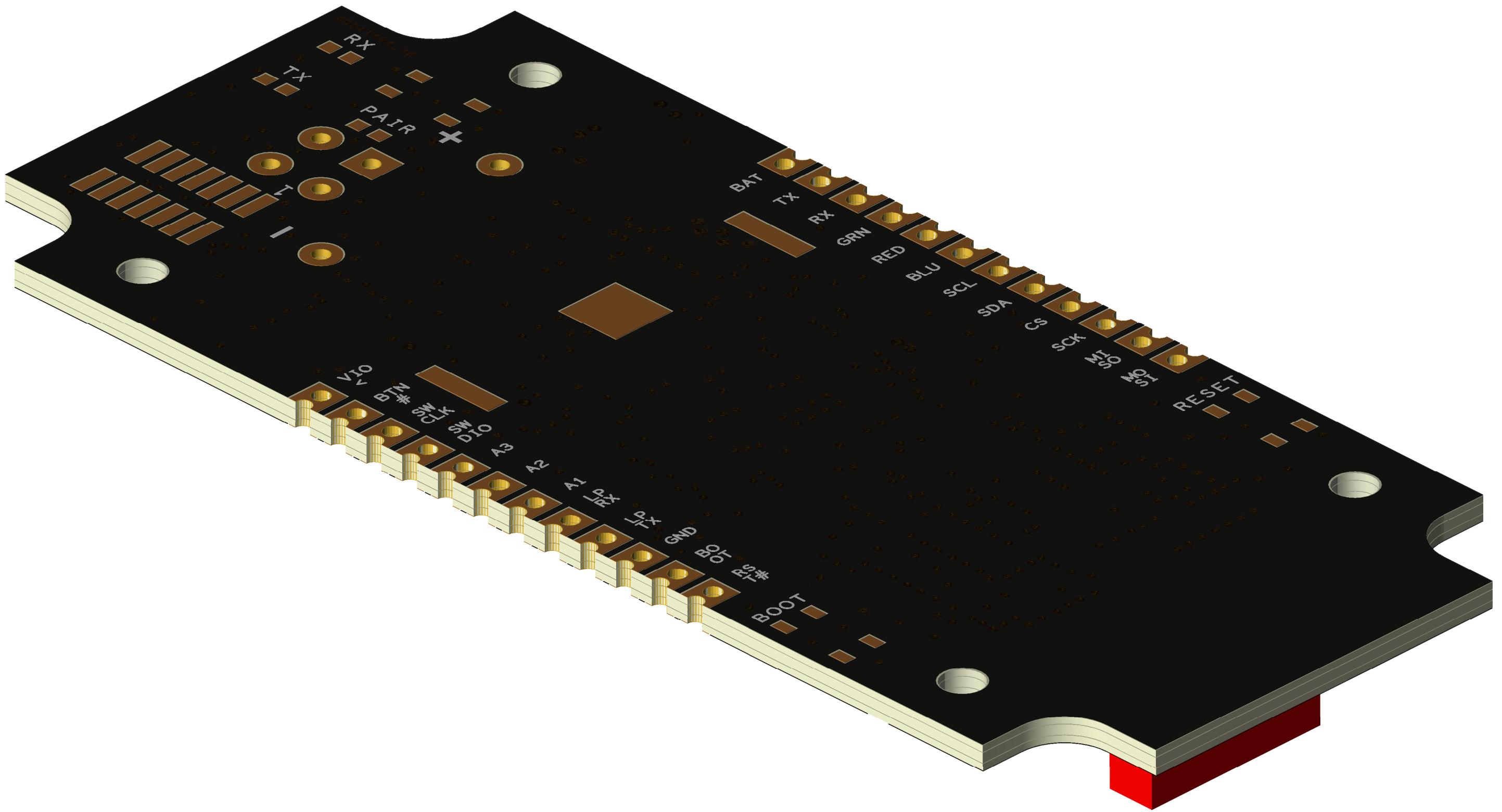
CUSTOMER: BLUES

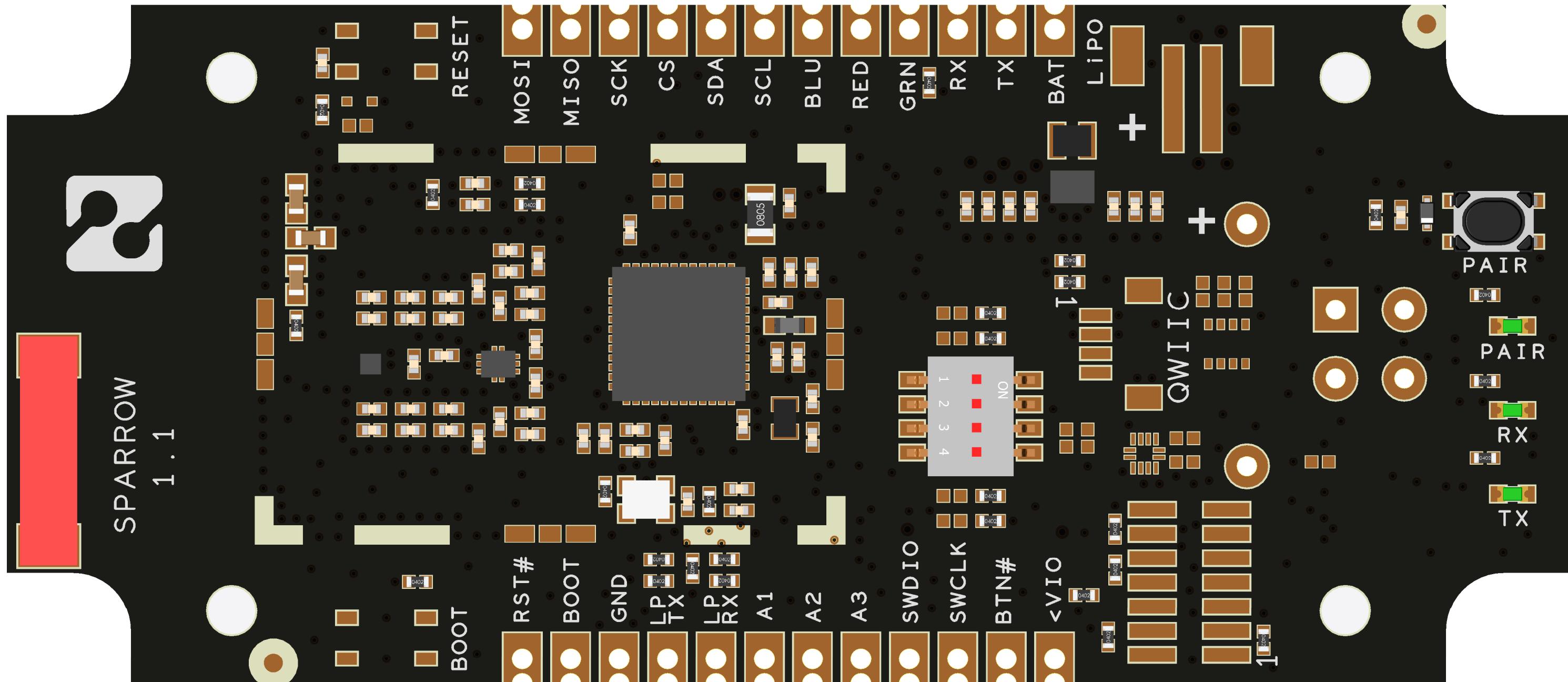
PROJECT: CORE-BOARD_V2

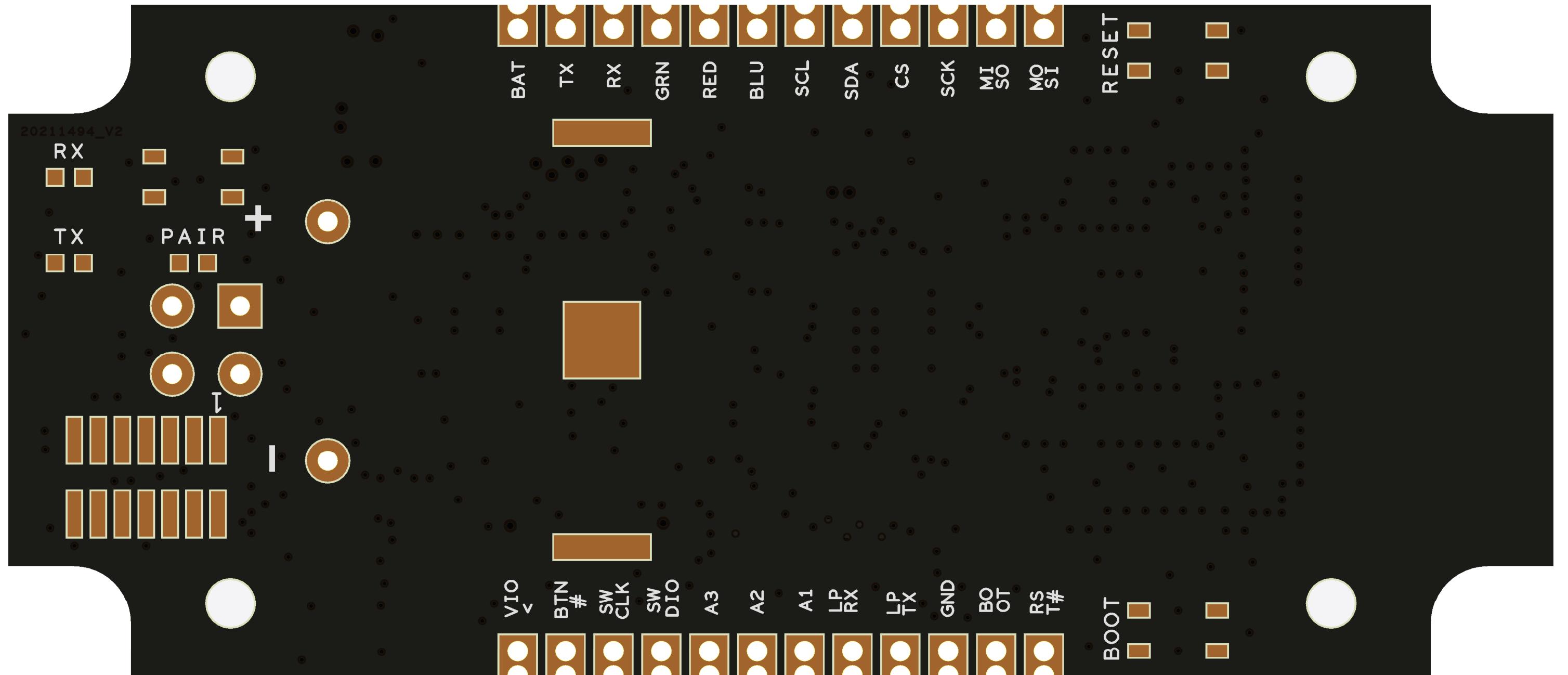
FAE CODE: 2021-1494

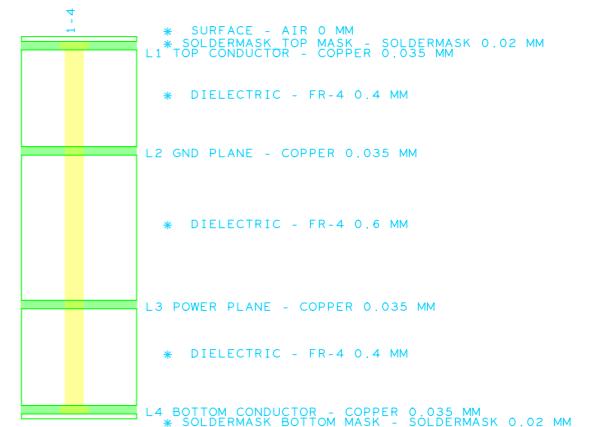
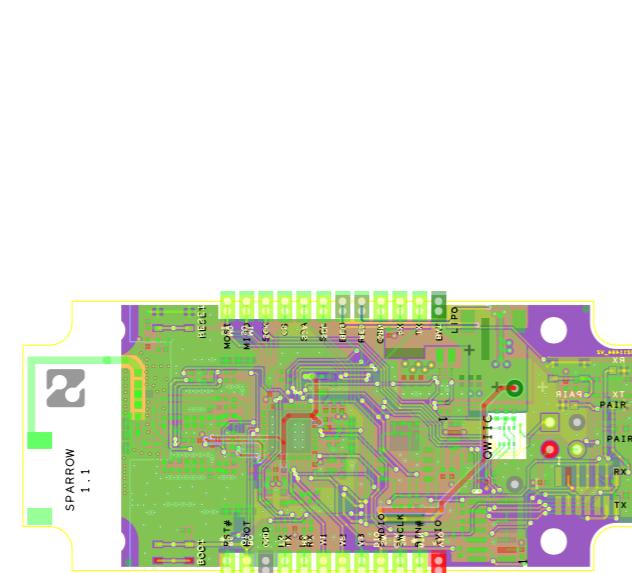
DATE: 25/01/2022











TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

IMPEDANCE CONTROL TABLE

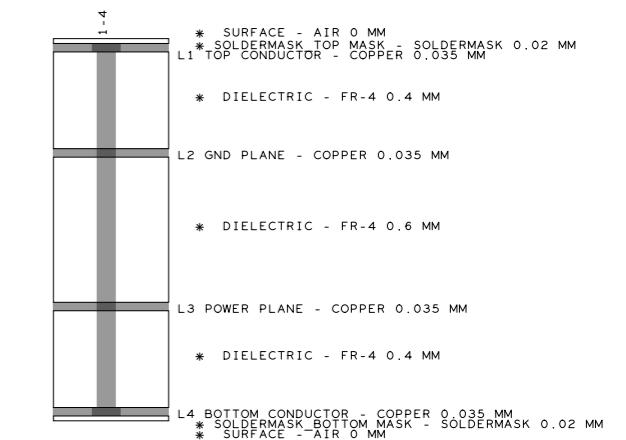
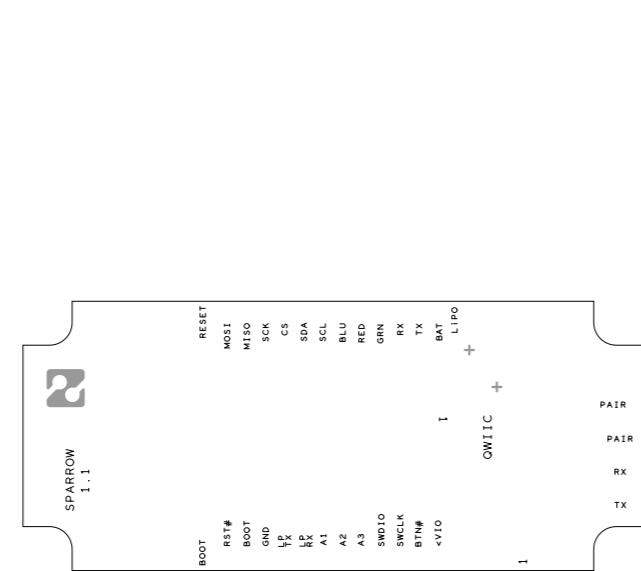
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP	0.2	0.13	-	100 ohm	+/- 10%
TOP	0.7	-	50 ohm	-	+/- 10%
TOP	0.64	-	50 ohm	-	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	82x35.62x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO. OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.2mm
DIELECTRIC MATERIAL	FR4-TG130	MIN. TRACE SPACING	0.1mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.1mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

	Project name		Board name
	SPARROW		SENSOR BOARD
	Designer		Approved Not approved
	G. Boschini		
	Project Code		Customer BLUES
	2021-1494		
Internal Code -		Code	-
Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy		Rev.	Size Page
Mail: info@fae.technology Tel: +39 035738130		2	A3
		Scale	1:1
		Data	26/10/2021

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TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

IMPEDANCE CONTROL TABLE

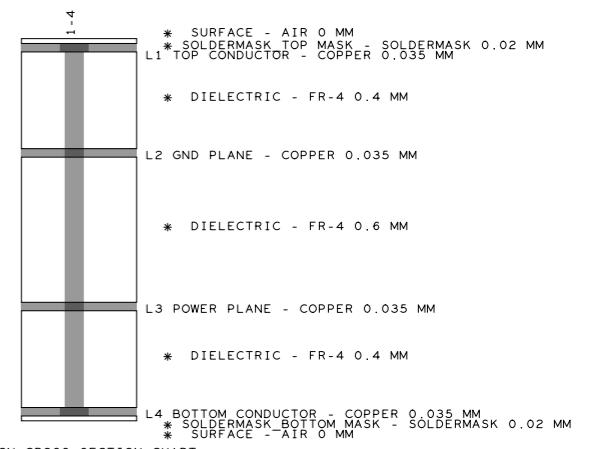
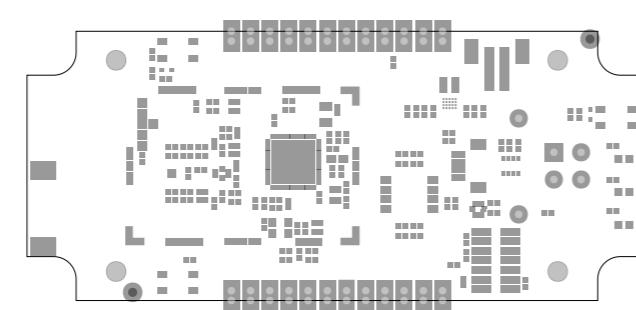
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SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	NO
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IMPEDANCE CONTROL TABLE

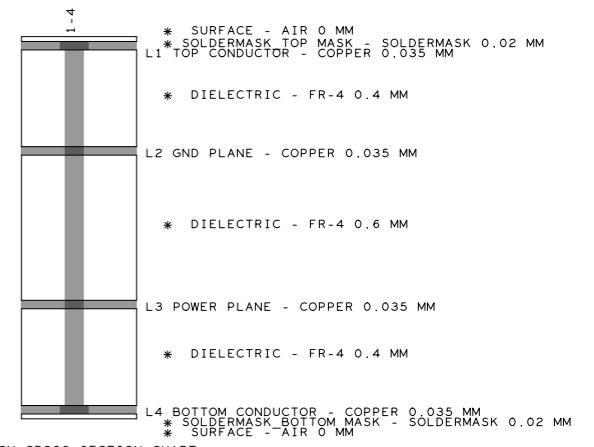
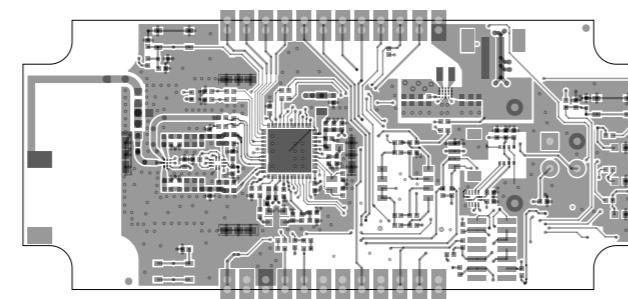
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FAE TECHNOLOGY	Project name		Board name
	SPARROW		SENSOR BOARD
	Designer G. Boschini		Approved Not approved
	Project Code 2021-1494		Customer BLUES
	Internal Code -		Code -
	Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy Mail: info@fae.technology	Rev. 2 Size Page A3	Scale 1:1 Data 26/10/2021

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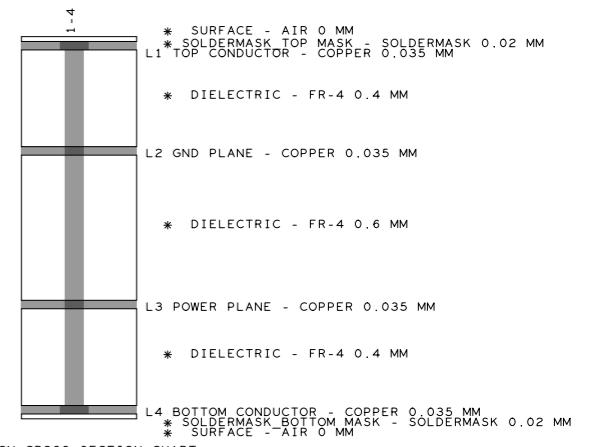
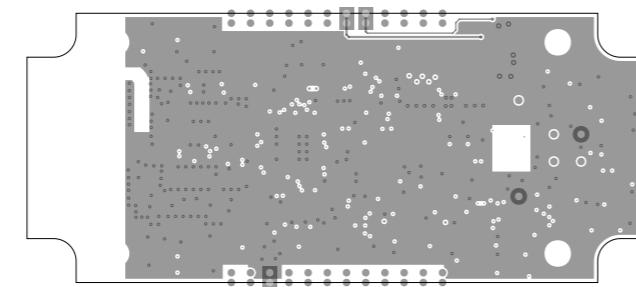
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	Designer	G. Boschini	Approved	Not approved
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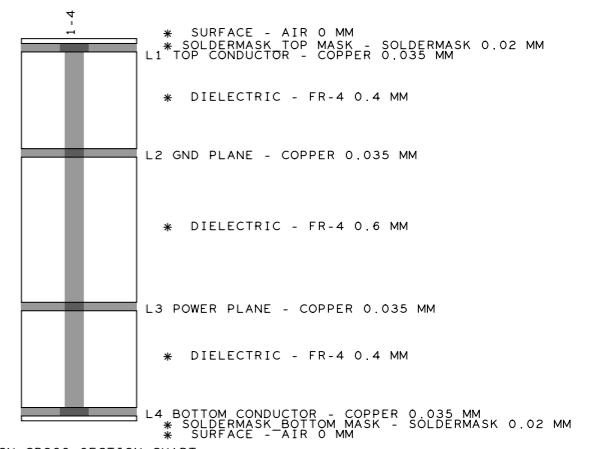
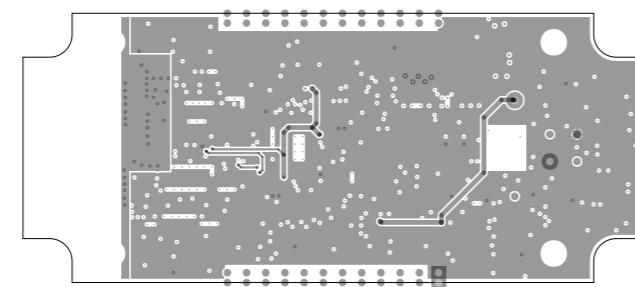
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		1:1	26/10/2021

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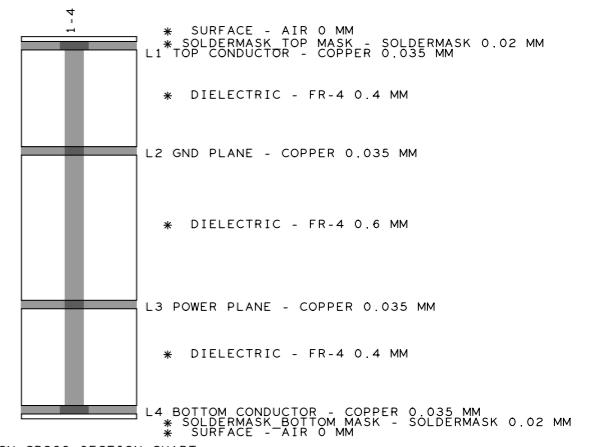
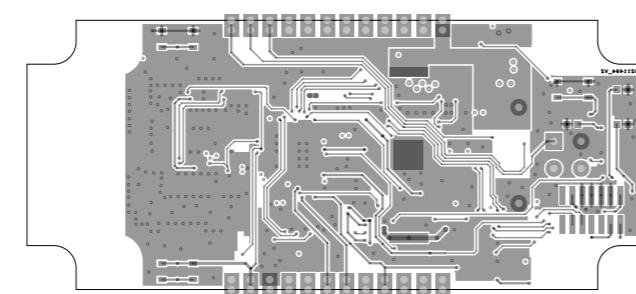
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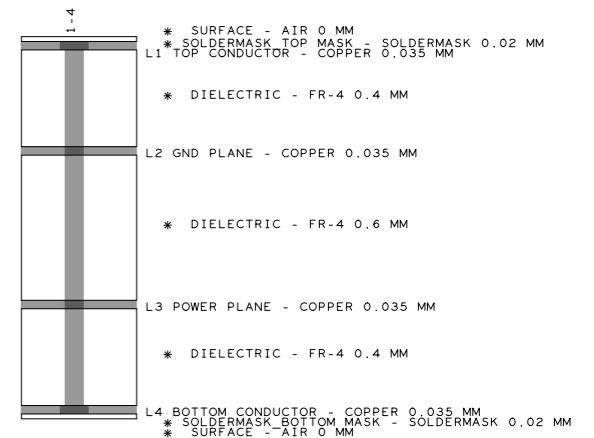
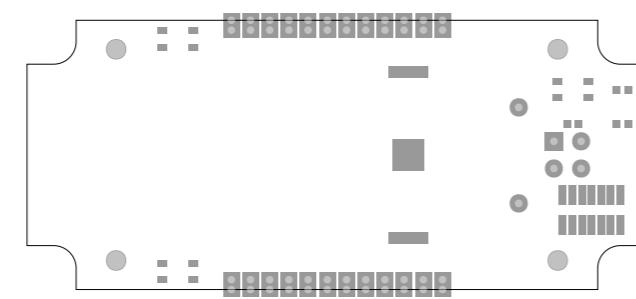
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		Scale 1:1	Data 26/10/2021

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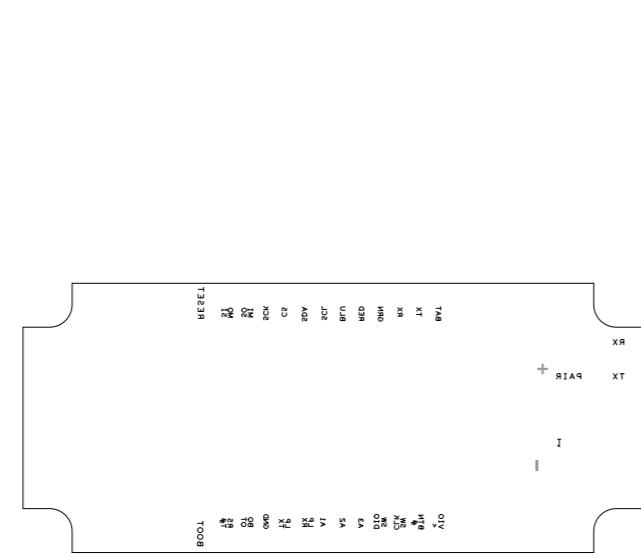
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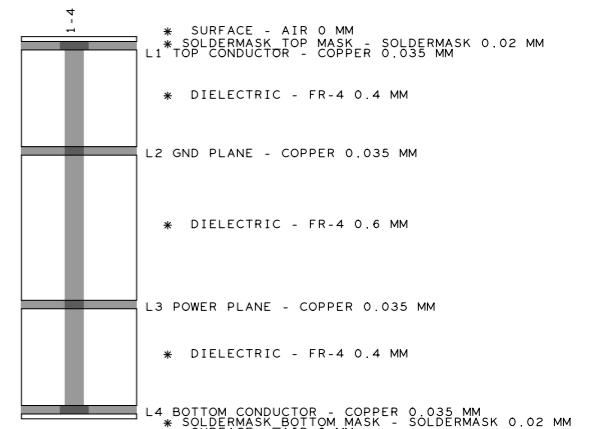
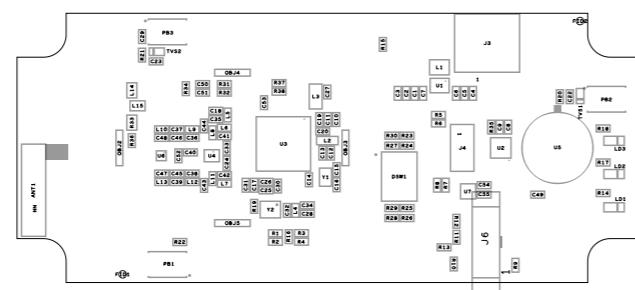
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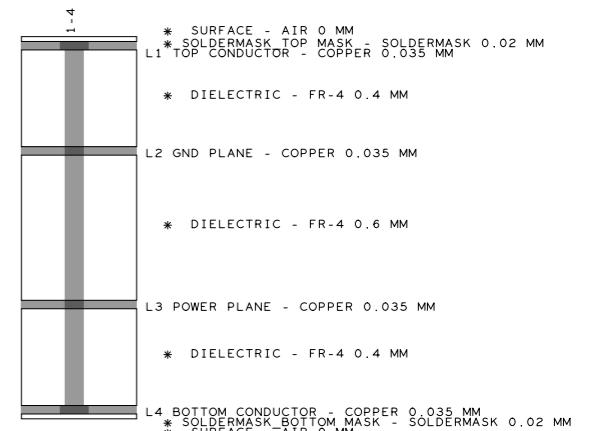
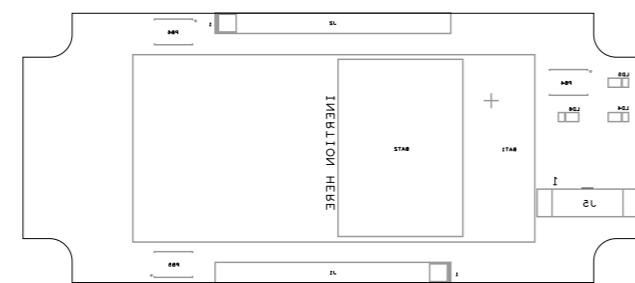
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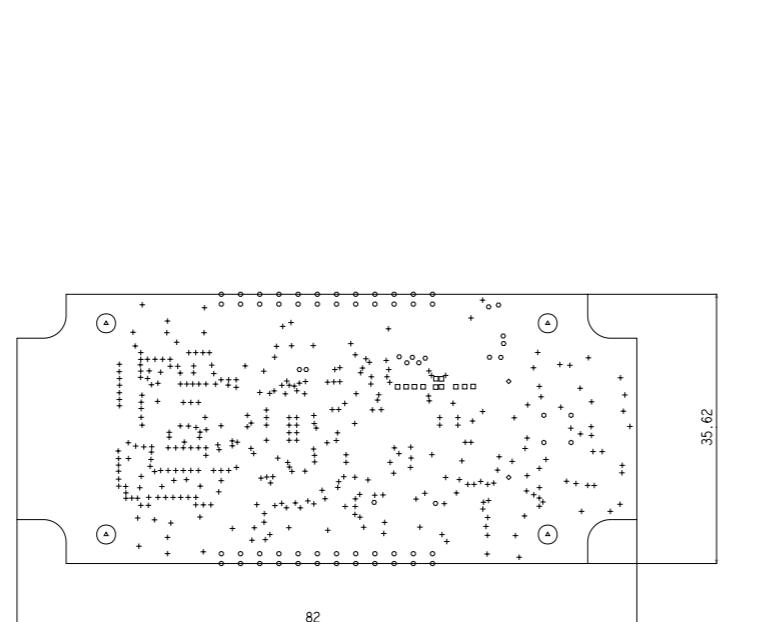
FAE TECHNOLOGY	Project name		Board name
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DRILL CHART: TOP to BOTTOM

ALL UNITS ARE IN MILLIMETERS

FIGURE	FINISHED SIZE	TOLERANCE	TYPE	QTY
*	0.2	+0.075/-0.075	PLATED	354
□	0.254	+0.075/-0.075	PLATED	11
○	0.35	+0.075/-0.075	PLATED	15
◊	1.0	+0.075/-0.075	PLATED	48
◊	1.0	+0.075/-0.075	PLATED	4
◊	1.02	+0.075/-0.075	PLATED	2
▲	2.5	+0.075/-0.075	NON-PLATED	4



82

35.62

TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP	0.2	0.13	-	100 ohm	+/- 10%
TOP	0.7	-	50 ohm	-	+/- 10%
TOP	0.64	-	50 ohm	-	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	82x35.62x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO. OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.2mm
DIELECTRIC MATERIAL	FR4-TG130	MIN. TRACE SPACING	0.1mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.1mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

	Project name		Board name
	SPARROW		SENSOR BOARD
	Designer G. Boschini		Approved Not approved
	Project Code 2021-1494		Customer BLUES
	Internal Code -		Code -
Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy		Rev. 2	Size Page A3
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