

FAE

TECHNOLOGY

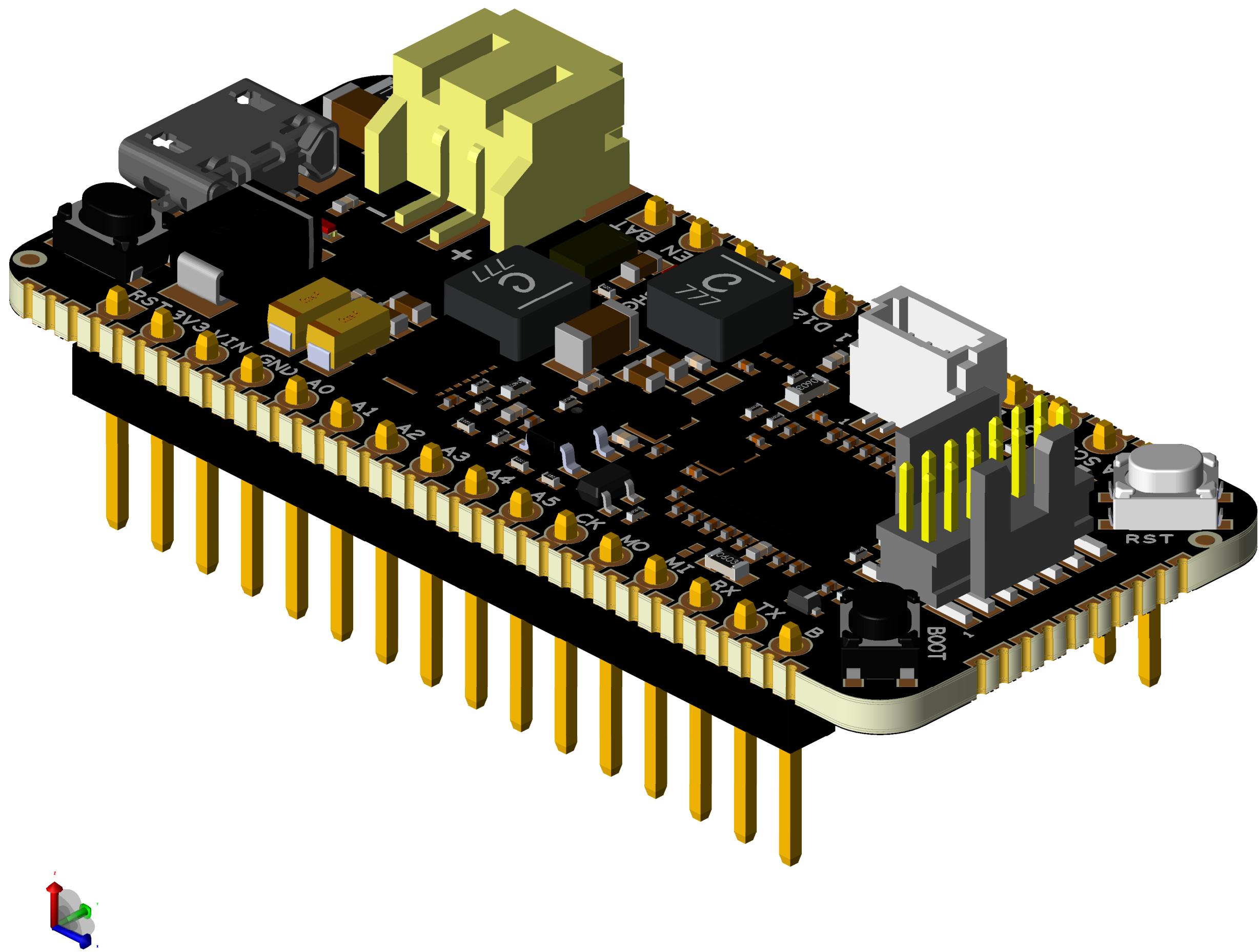
PCB DOCUMENTATION

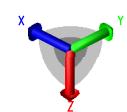
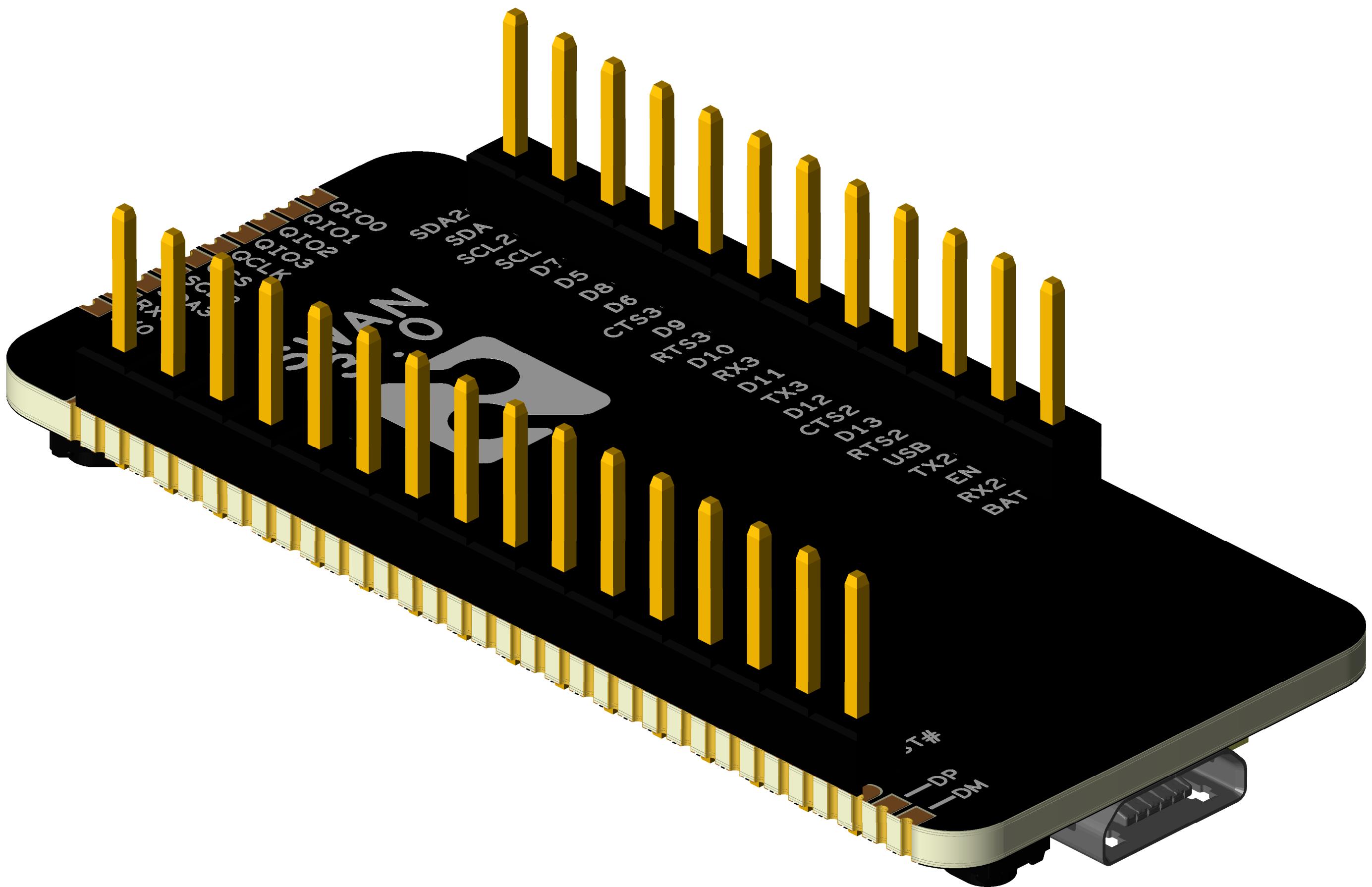
CUSTOMER: BLUES

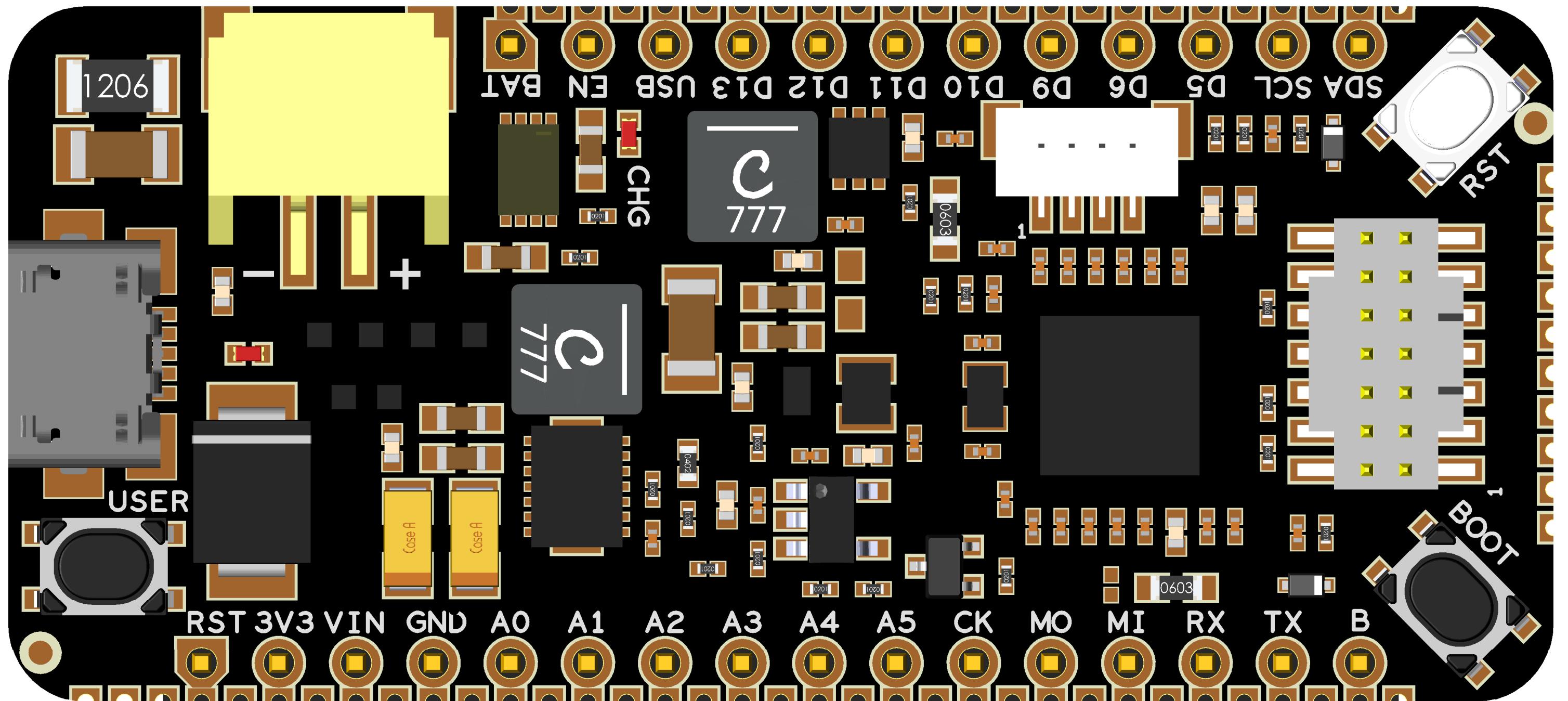
PROJECT: SWAN-F_V7

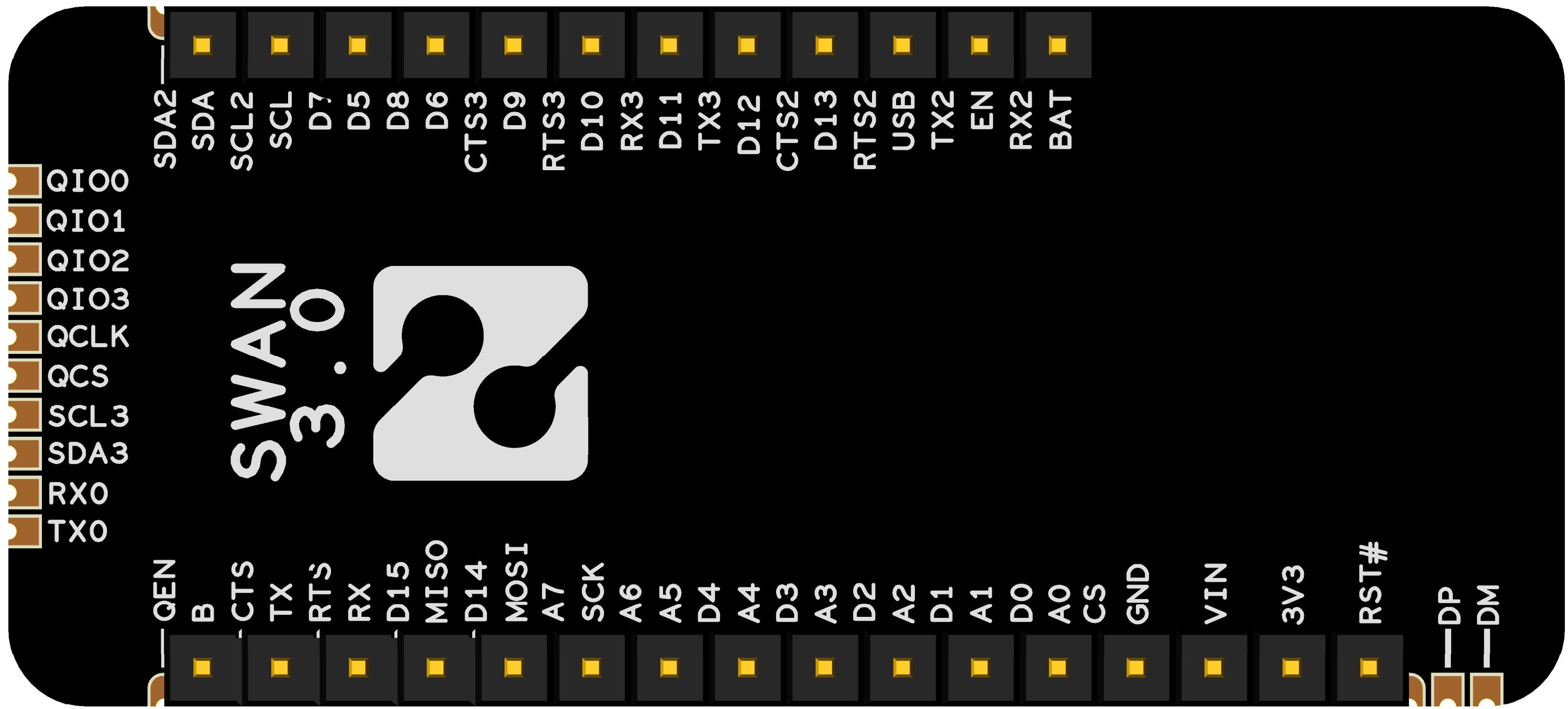
FAE CODE: 2021-0248

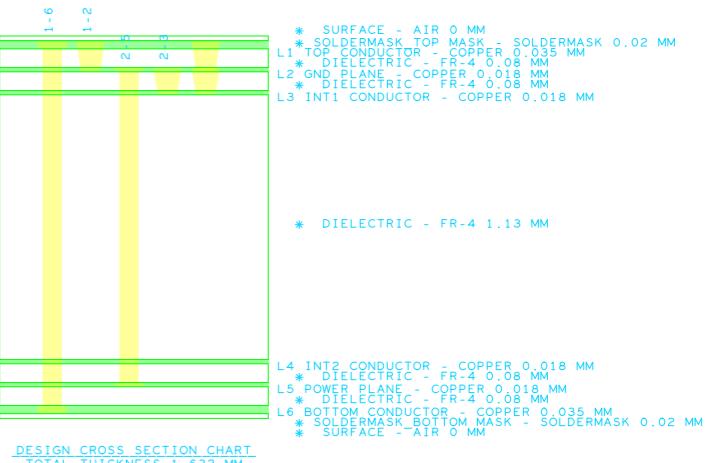
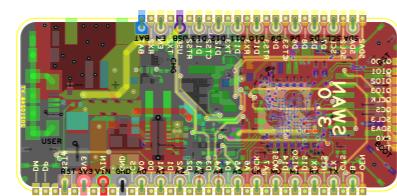
DATE: 21/04/2022











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

IMPEDANCE CONTROL TABLE

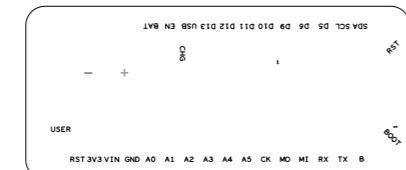
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
INT1	0.1	0.14	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

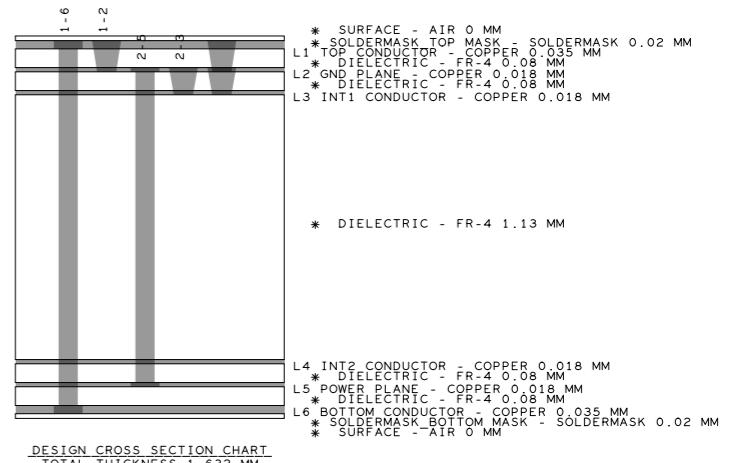
BOARD SIZE (XxYxZ)	50.8x22.86x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO. OF LAYERS	6	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	YES
BASE COPPER INSIDE	18um	BLIND VIA	YES
FINISH	ENIG	BURIED VIA	YES
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	YES - BGA PADS
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.1mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.08mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.087mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.087mm

	Project name		Board name	
	SWAN		SWAN-F	
	Designer	G. Boschini/M. Gregis	Approved	Not approved
	Project Code	2021-0248	Customer	BLUES
	Internal Code	-	Code	-
	Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy Mail: info@fae.technology	Rev. 7	Size Page A3	Scale 1:1 Data 17/02/2022

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S0A SCL D5 D6 D9 D10 D11 D12 D13 D14 D15 EN BAT
RST3V3VIN GND A0 A1 A2 A3 A4 A5 CK MO MI RX TX B
USER



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

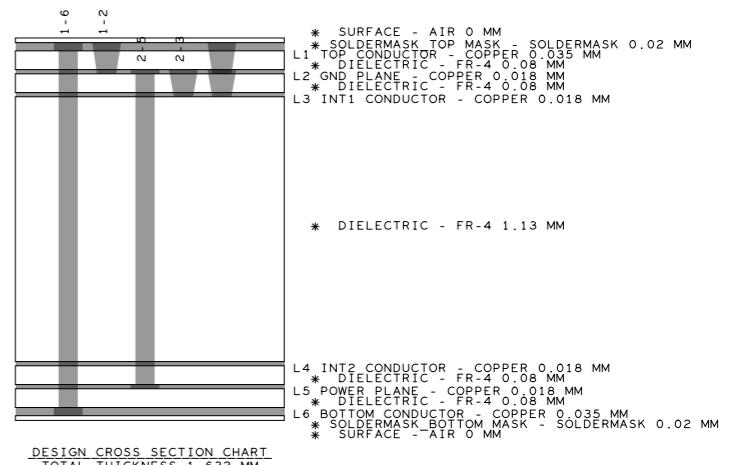
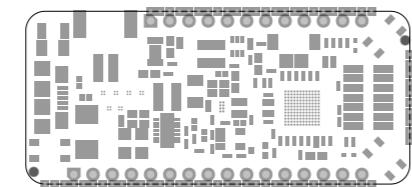
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TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

IMPEDANCE CONTROL TABLE

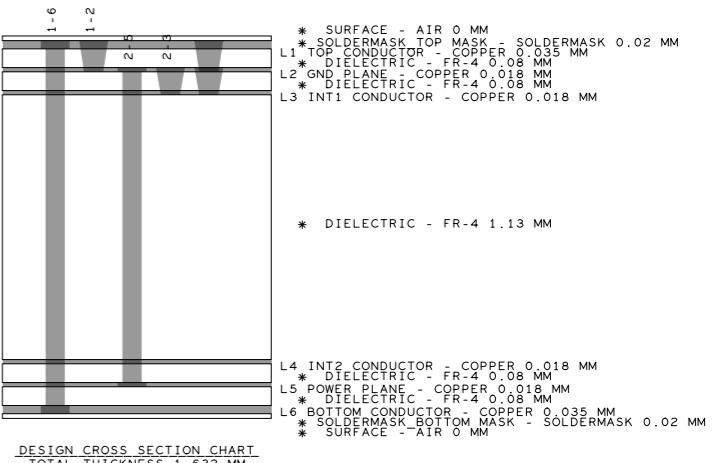
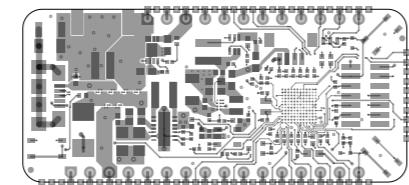
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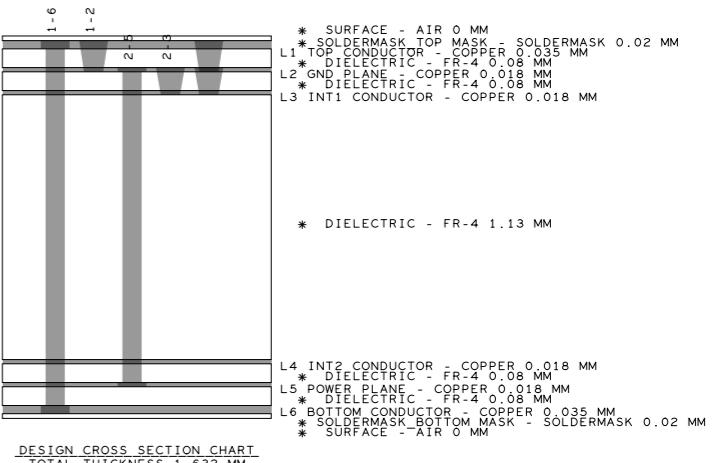
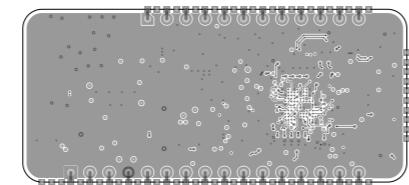
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IMPEDANCE CONTROL TABLE

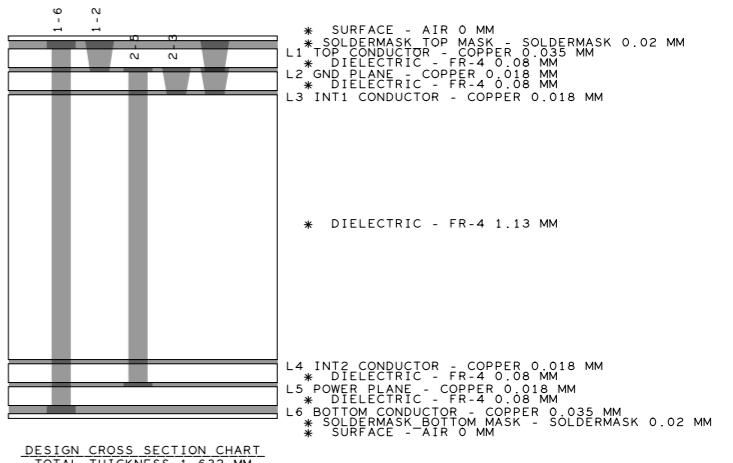
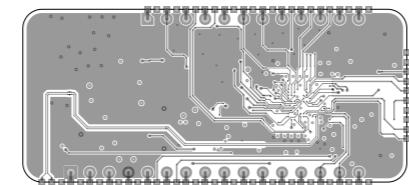
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TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

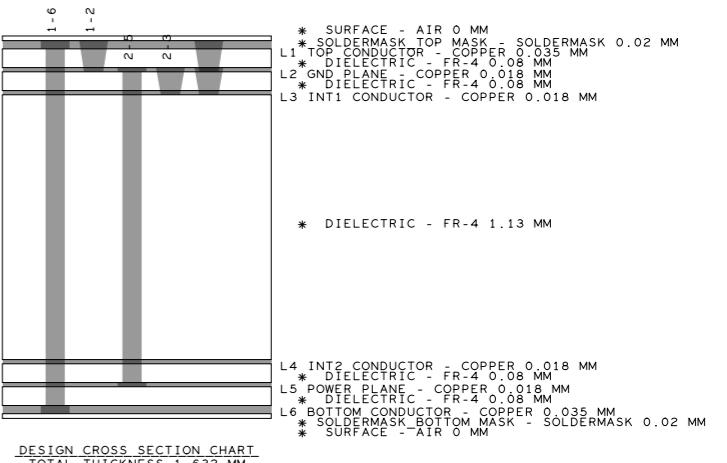
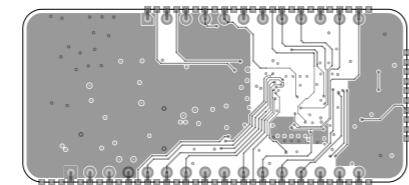
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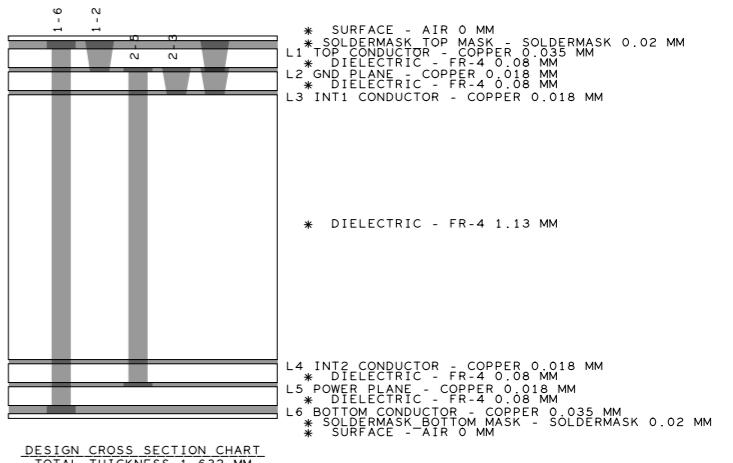
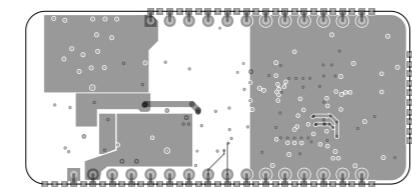
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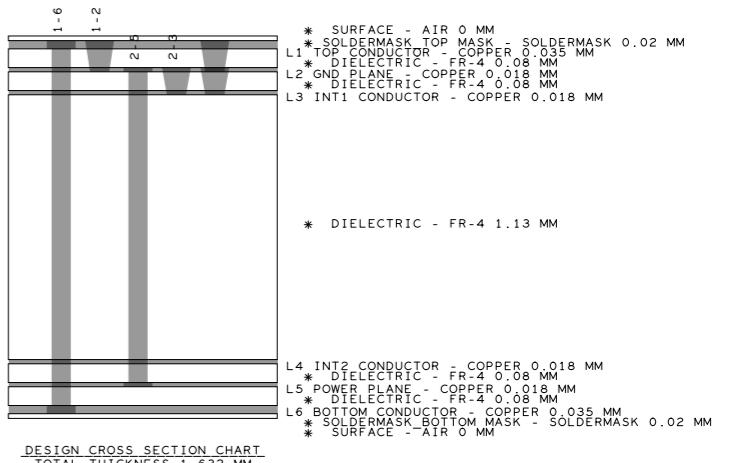
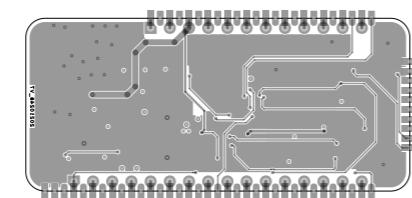
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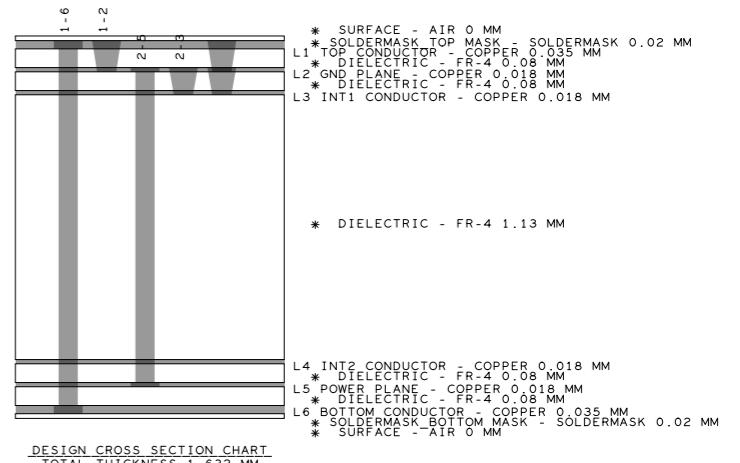
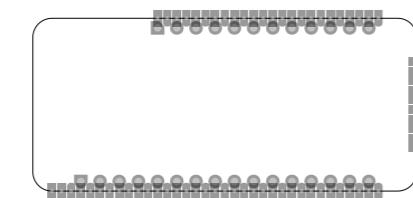
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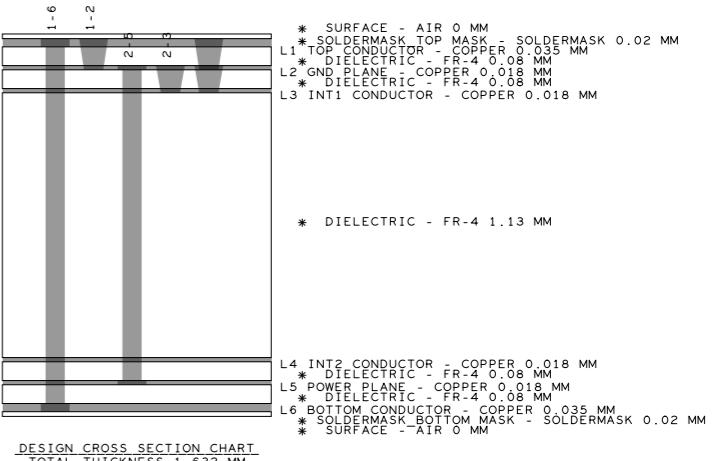
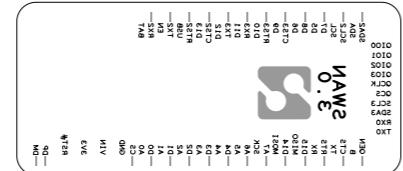
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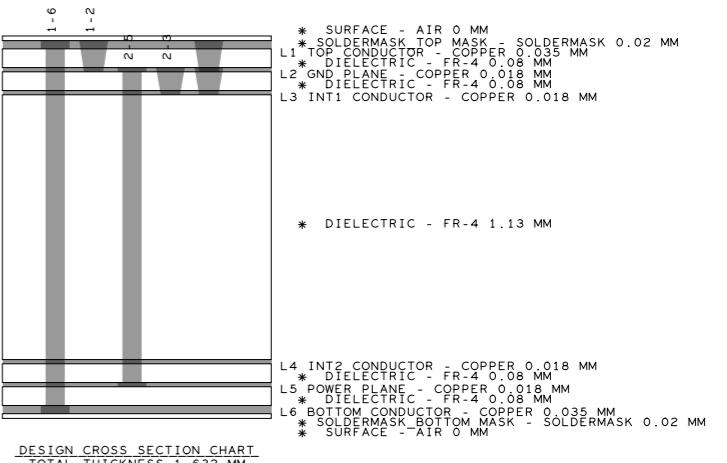
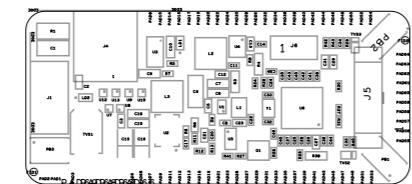
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BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO. OF LAYERS	6	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	YES
BASE COPPER INSIDE	18um	BLIND VIA	YES
FINISH	ENIG	BURIED VIA	YES
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	YES - BGA PADS
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.1mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.08mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.087mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.087mm

FAE TECHNOLOGY	Project name		Board name
	SWAN		SWAN-F
	Designer G. Boschini/M. Gregis		Approved Not approved
	Project Code 2021-0248		Customer BLUES
	Internal Code -		Code -
Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy Mail: info@fae.technology Tel: +39 035738130	Rev. 7	Size Page A3	Scale 1:1
	Data 17/02/2022		
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TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

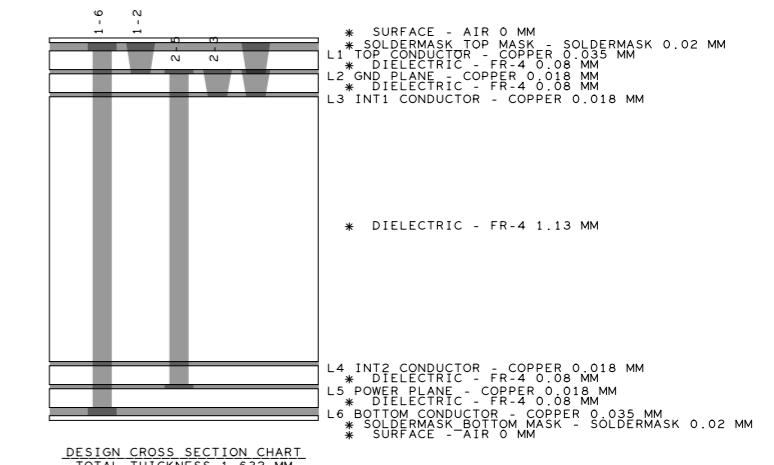
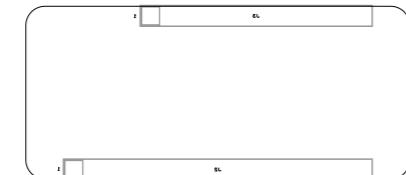
IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
INT1	0.1	0.14	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	50.8x22.86x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO. OF LAYERS	6	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	YES
BASE COPPER INSIDE	18um	BLIND VIA	YES
FINISH	ENIG	BURIED VIA	YES
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	YES - BGA PADS
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FAE TECHNOLOGY	Project name		Board name	
	SWAN		SWAN-F	
	Designer	G. Boschini/M. Gregis	Approved	Not approved
	Project Code	2021-0248	Customer	BLUES
	Internal Code	-	Code	-
Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy Mail: info@fae.technology		Rev.	Size Page	Scale
		7	A3	1:1
		Data	17/02/2022	
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IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
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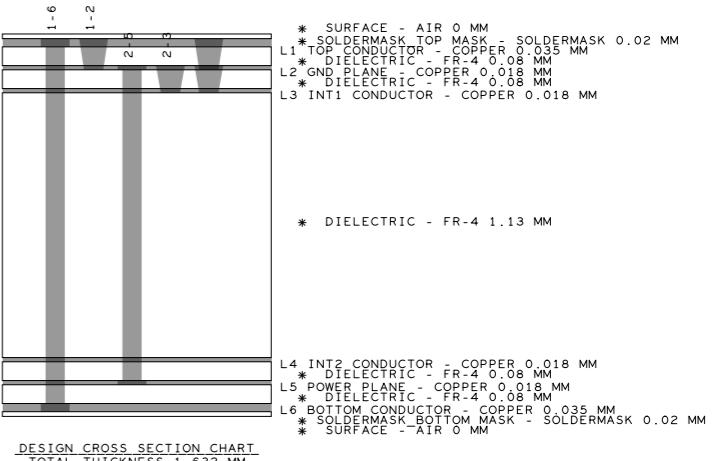
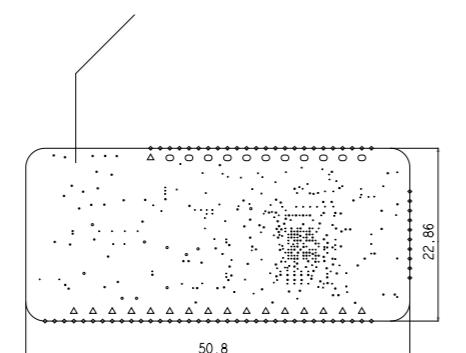
MANUFACTURING SPECIFICATIONS

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FAE TECHNOLOGY	Project name		Board name	
	SWAN		SWAN-F	
	Designer	G. Boschin/M. Gregis	Approved	Not approved
	Project Code	2021-0248	Customer	BLUES
	Internal Code	-	Code	-
Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy Mail: info@fae.technology	Rev.	Size Page	Scale	Data
	7	A3	1:1	17/02/2022

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Put PCB data code and/or manufacturer logo
on Bottom Side



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	TOLERANCE
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MANUFACTURING SPECIFICATIONS

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	Project name	Board name	
	SWAN		SWAN-F
	Designer	Approved Not approved	
	Project Code	Customer BLUES	
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	Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy Mail: info@fae.technology	Rev. 7	Size Page A3
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