



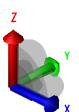
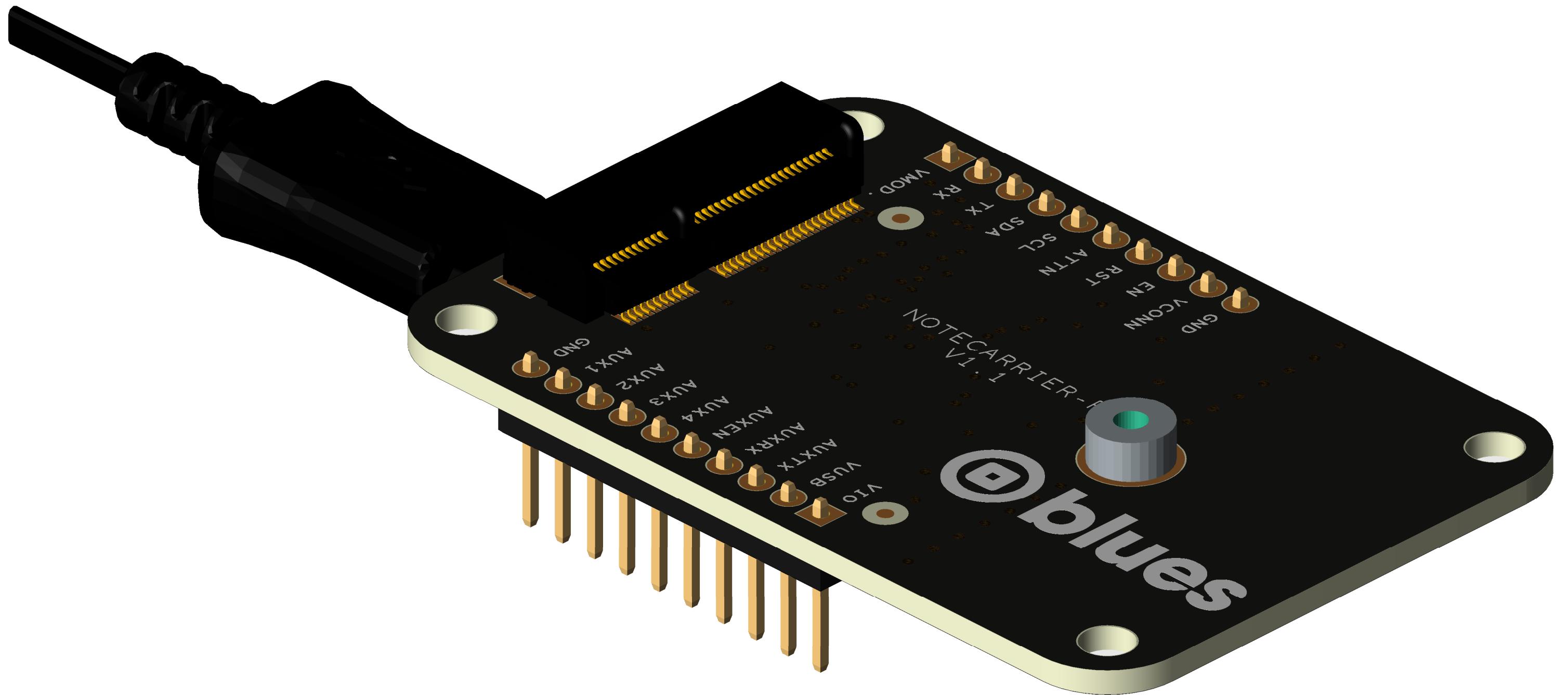
## PCB DOCUMENTATION

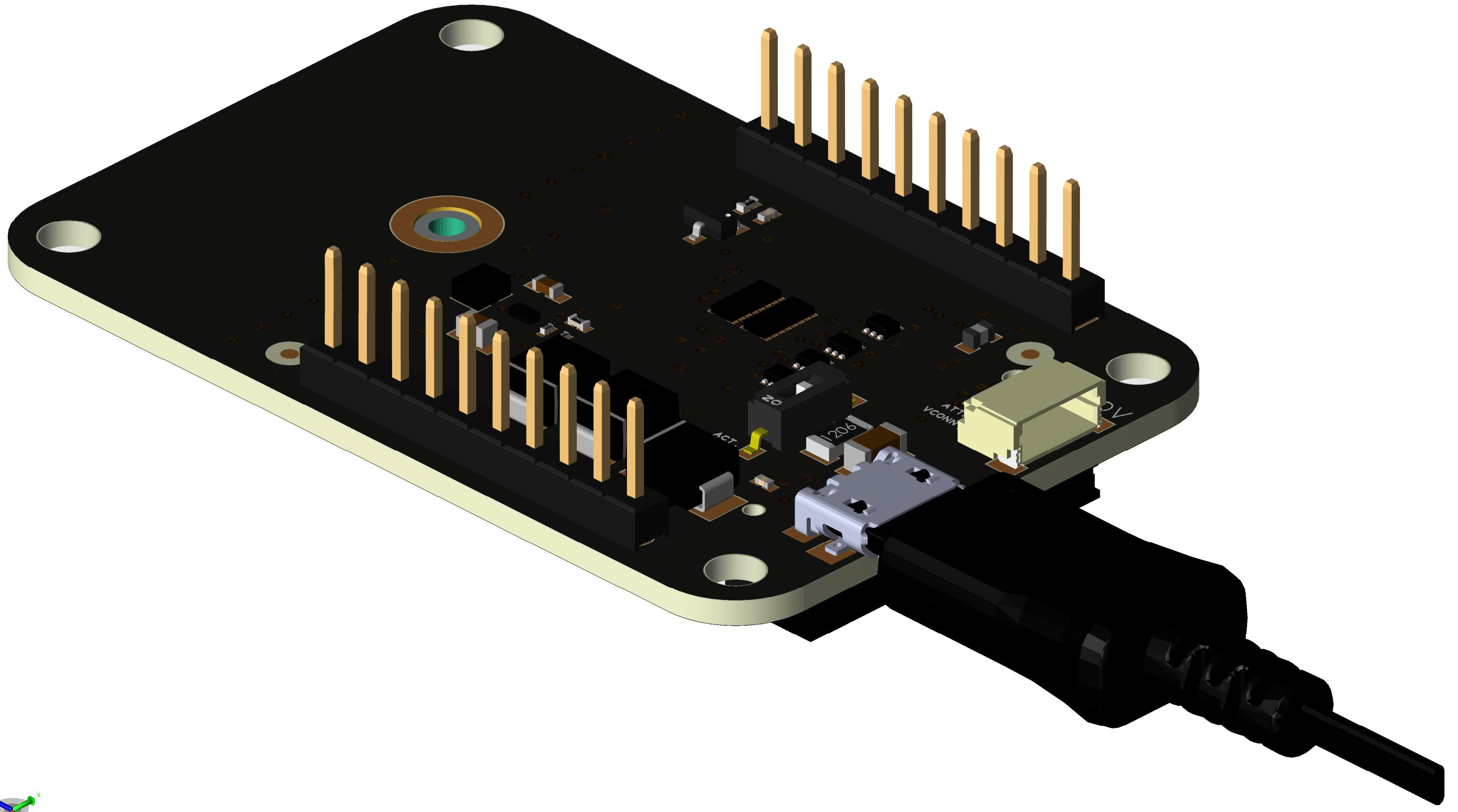
CUSTOMER: BLUES

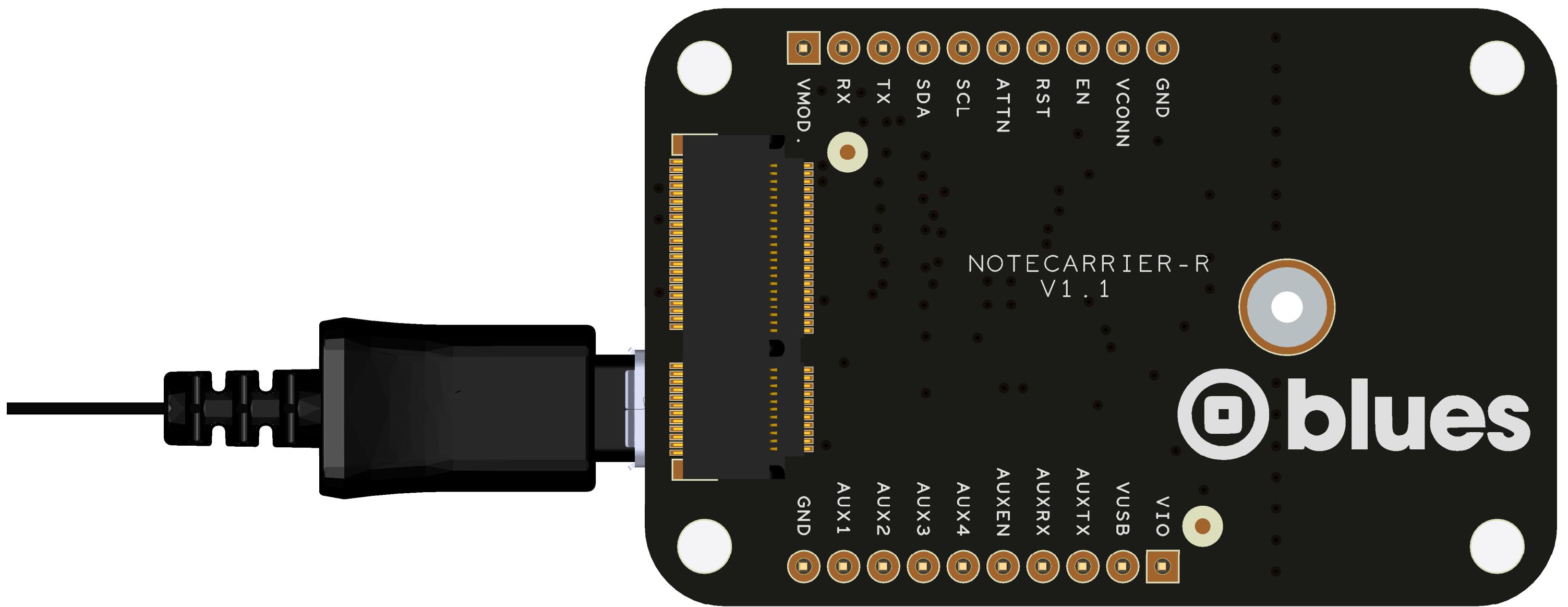
PROJECT: NOTE CARRIER-M2-R V1

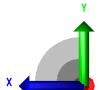
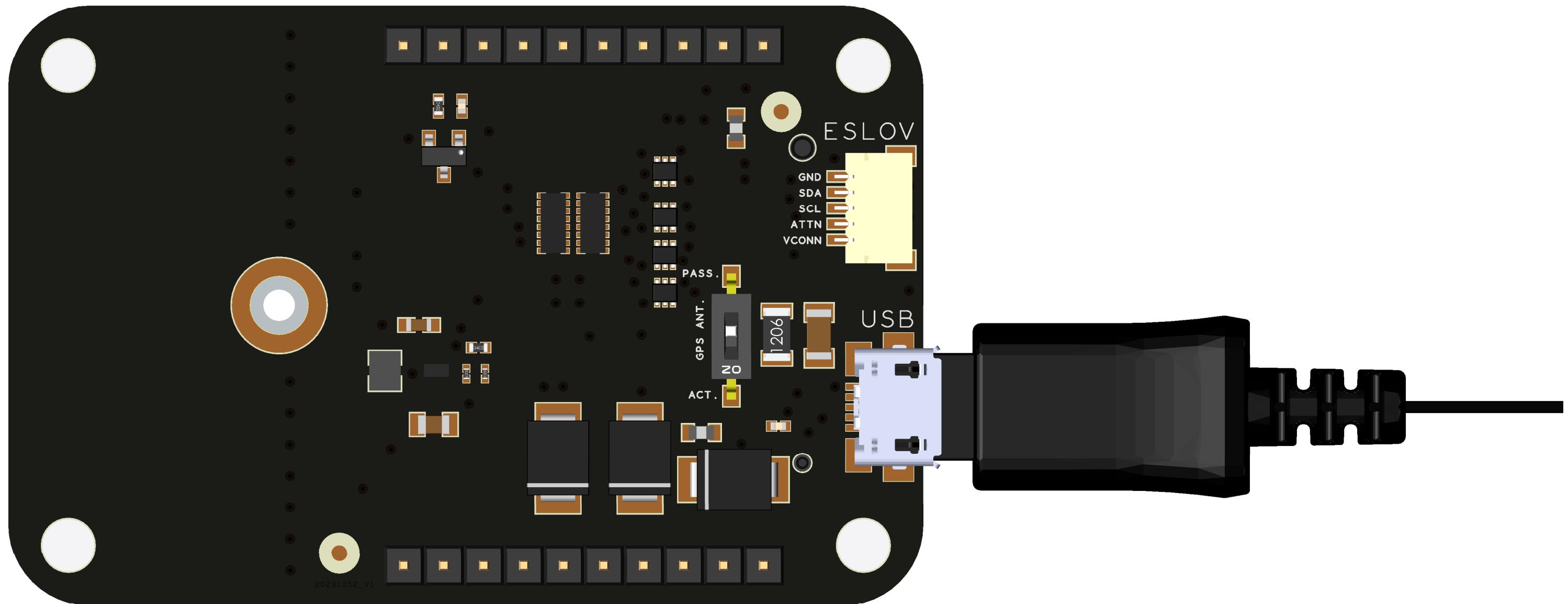
FAE CODE: 2023-1252

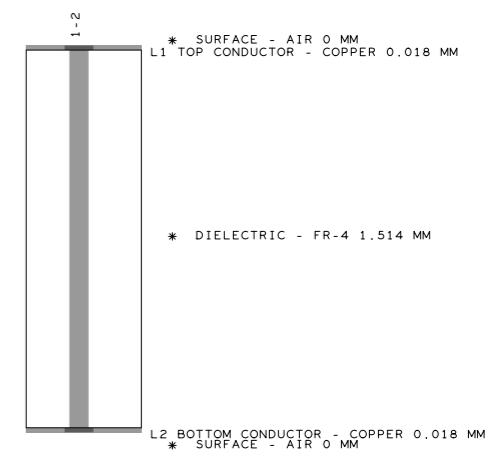
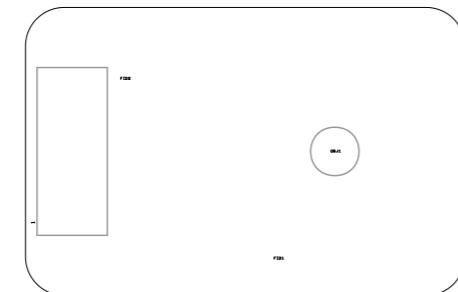
DATE: 2024-02-20











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

#### IMPEDANCE CONTROL TABLE

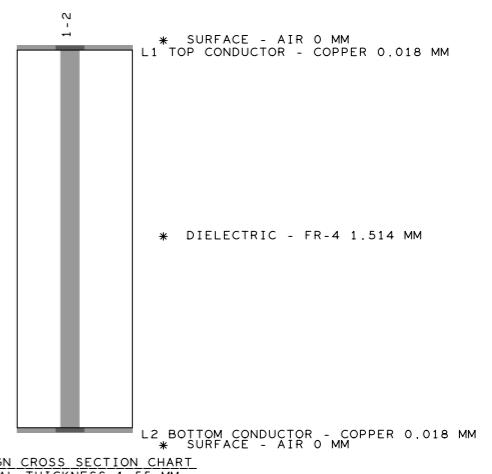
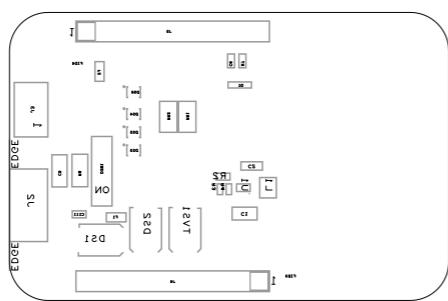
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

#### MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	58.12x38.1x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2   +/-0.2   +/-10%	E-TESTING	YES
NO. OF LAYERS	2	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	18um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG130	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	NO	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

<b>FAE TECHNOLOGY</b>	Project name		Board name	
	NOTECarrier-M2-R		PORTENTA NOTECarrier	
	Designer S. Vaghi		Approved	Not approved
	Project Code 2023-1252		Customer	Blues
	Internal Code -		Code	-
Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy Mail: info@fae.technology		Rev. 1	Size Page A3	Scale 1:1
		Data 20/02/2024		

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#### IMPEDANCE CONTROL TABLE

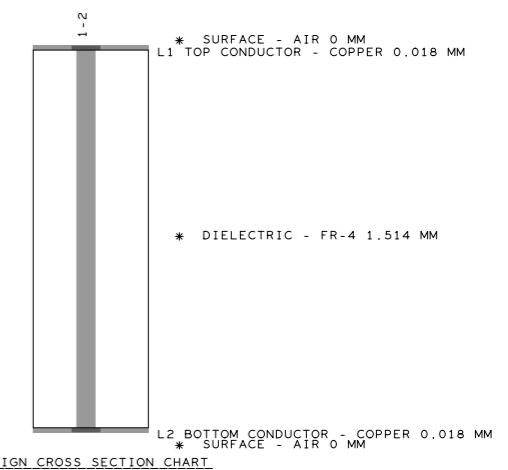
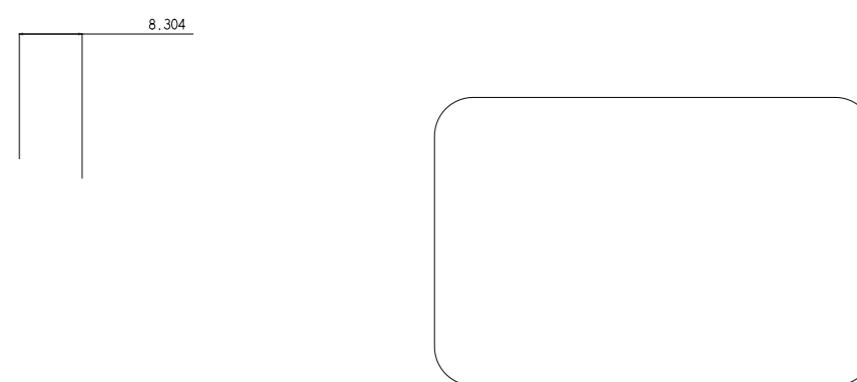
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

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	NOTECARRIER-M2-R		PORTENTA NOTECARRIER	
	Designer S. Vaghi		Approved	Not approved
	Project Code 2023-1252		Customer	Blues
	Internal Code -		Code	-
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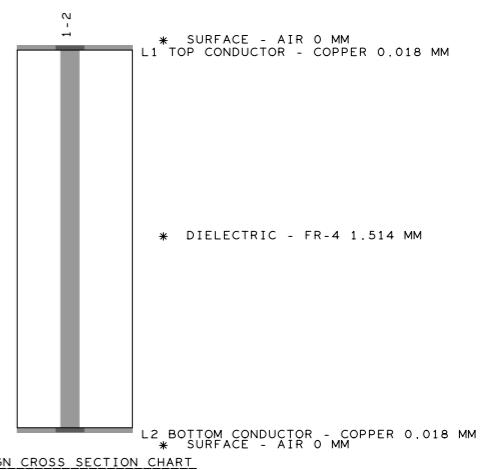
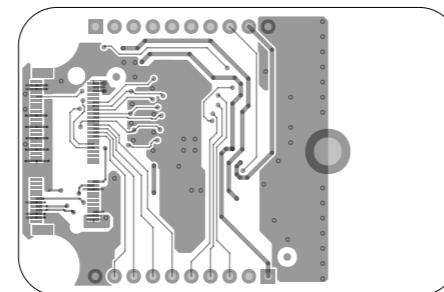
#### IMPEDANCE CONTROL TABLE

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

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#### IMPEDANCE CONTROL TABLE

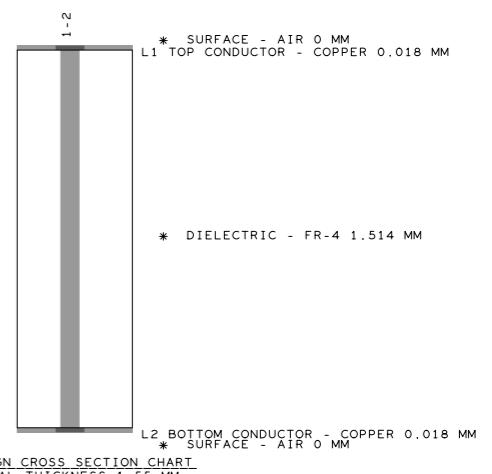
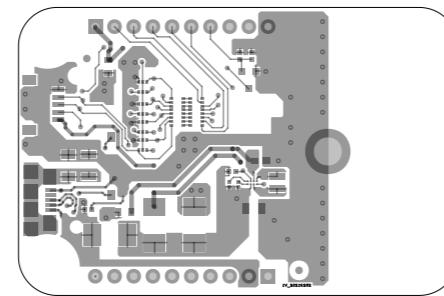
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-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

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Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy		Rev.	Size Page	Scale
Mail: info@fae.technology Tel: +39 035738130		1	A3	1:1
Data 20/02/2024				

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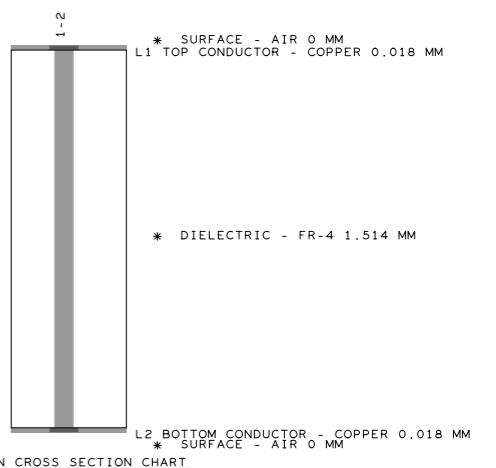
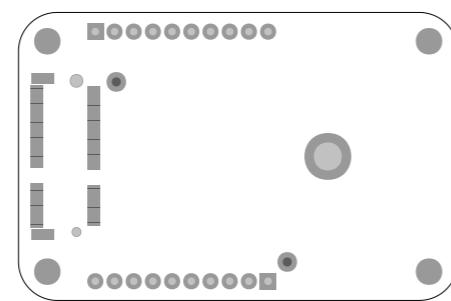
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
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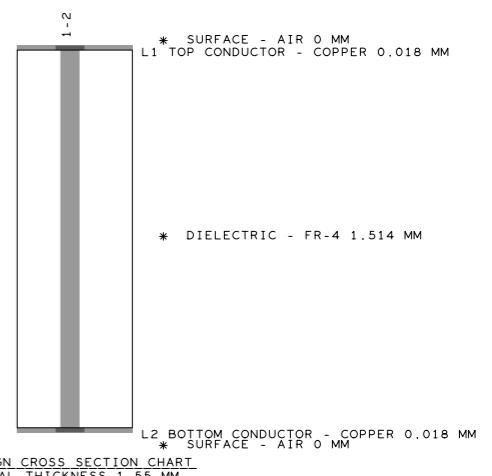
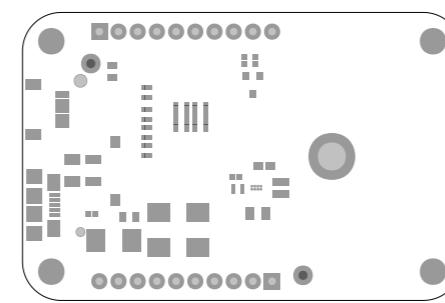
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-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
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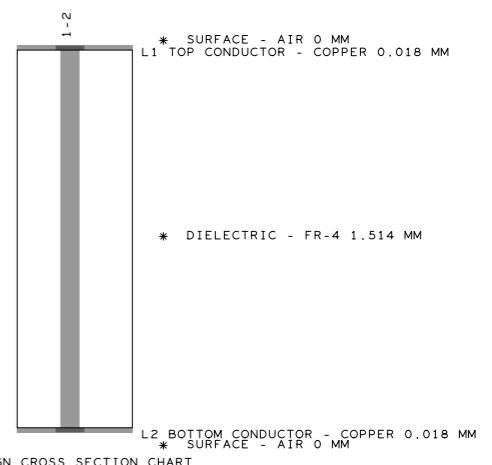
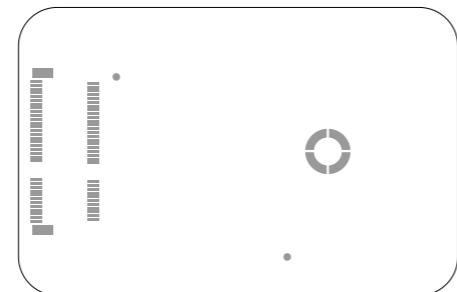
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

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-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
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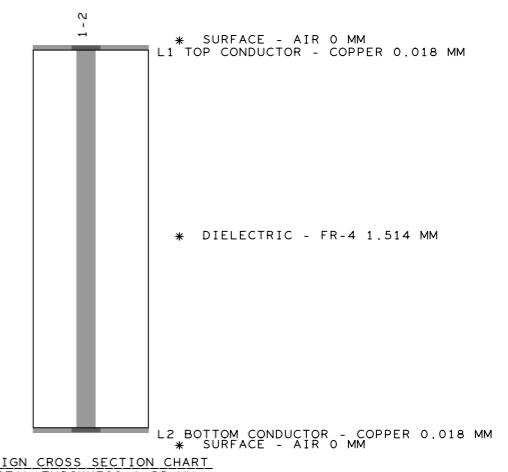
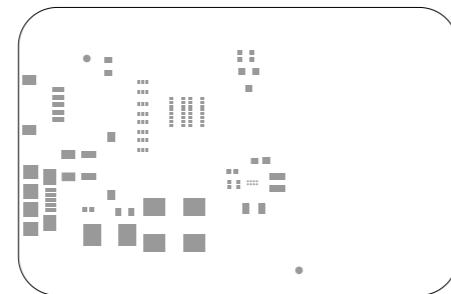
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Project name	NOTECARRIER-M2-R		Board name	PORTENTA NOTECARRIER	
Designer	S. Vaghi			Approved	Not approved
Project Code	2023-1252			Customer	Blues
Internal Code	-			Code	-
Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy Mail: info@fae.technology	Rev.	Size Page	Scale	Data	20/02/2024
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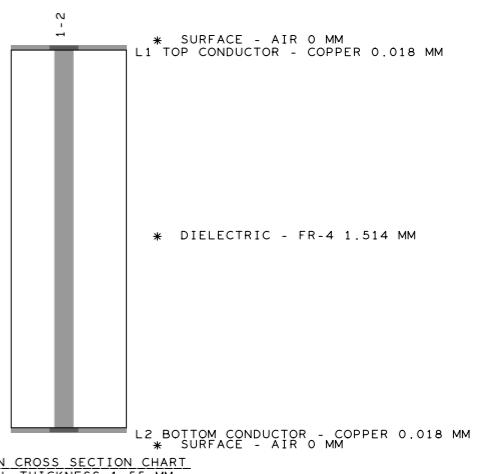
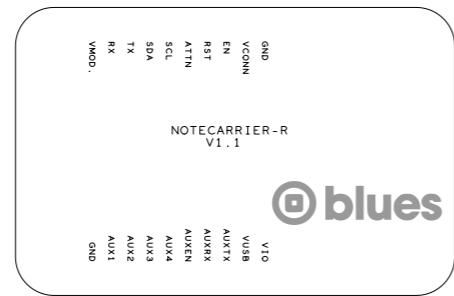
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-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
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Mail: info@fae.technology		1	A3	1:1
Tel: +39 035738130		Data	20/02/2024	
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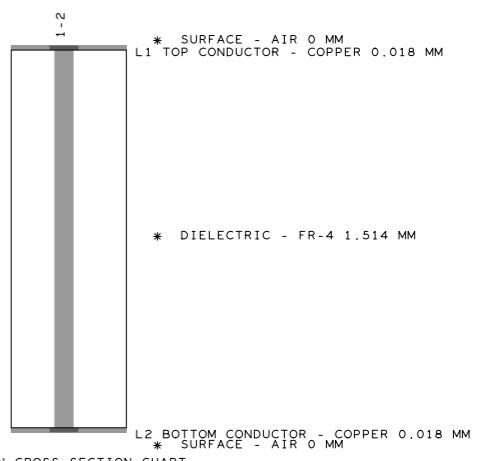
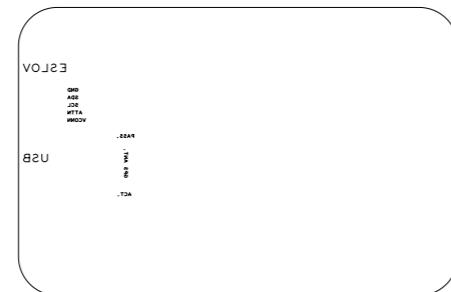
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-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

#### MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	58.12x38.1x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2   +/-0.2   +/-10%	E-TESTING	YES
NO. OF LAYERS	2	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	18um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG130	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	NO	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

<b>FAE TECHNOLOGY</b>	Project name		Board name	
	NOTE CARRIER-M2-R		PORTENTA NOTE CARRIER	
	Designer		Approved	Not approved
	S. Vaghi			
	Project Code		Customer	Blues
Internal Code -		Code	-	
Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy Mail: info@fae.technology		Rev.	Size Page	Scale
		1	A3	1:1
		Data	20/02/2024	

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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
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

#### MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	58.12x38.1x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2   +/-0.2   +/-10%	E-TESTING	YES
NO. OF LAYERS	2	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	18um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG130	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	NO	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

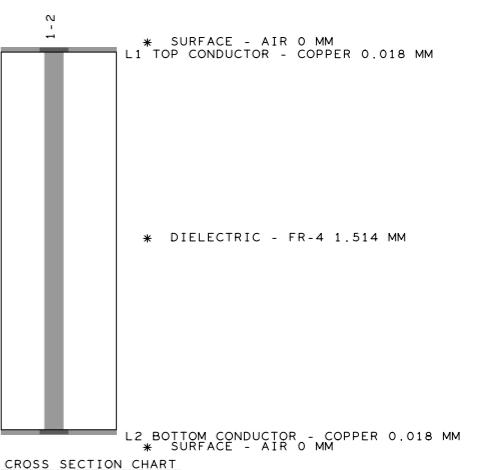
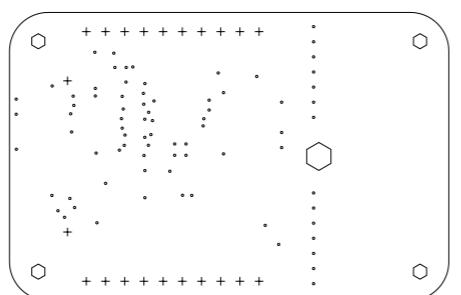
<b>FAE TECHNOLOGY</b>	Project name		Board name	
	NOTECarrier-M2-R		PORTENTA NOTECarrier	
	Designer S. Vaghi		Approved	Not approved
	Project Code 2023-1252		Customer	Blues
	Internal Code -		Code	-
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		Data	20/02/2024	

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**DRILL CHART: TOP to BOTTOM**

ALL UNITS ARE IN MILLIMETERS

FIGURE	FINISHED SIZE	TOLERANCE	TYPE	QTY
*	0.3	+0.075/-0.075	PLATED	82
+	1.0	+0.0/-0.0	PLATED	20
○	3.7	+0.0/-0.0	PLATED	1
+	1.1	+0.05/-0.05	NON-PLATED	1
+	1.6	+0.05/-0.05	NON-PLATED	1
○	3.3	+0.1/-0.1	NON-PLATED	4



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
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

## MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	58.12x38.1x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
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NO. OF LAYERS	2	UL-MARKING	YES
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BASE COPPER INSIDE	18um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
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IMPEDANCE CONTROL	NO	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

	Project name		Board name	
	NOTECarrier-M2-R		PORTENTA NOTECarrier	
	Designer	S. Vaghi	Approved	Not approved
	Project Code	2023-1252	Customer	Blues
	Internal Code	-	Code	-
Via C. Battisti 136, 24025, Gazzaniga (Bg), Italy		Rev.	Size Page	Scale
Mail: info@fae.technology		1	A3	1:1
Tel: +39 035738130		Data	20/02/2024	
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