ALP LAB

E1M-X V2N Conflict Minerals Declaration

3TG due diligence — CMRT companion statement

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1 Declaration

Conflict Minerals Declaration **Alp Lab AB** is committed to the responsible sourcing of **tin, tantalum, tungsten and gold (3TG)** used in the **E1M-X V2N System-on-Module** (base variant). Alp Lab's exposure is entirely downstream, through the electronic components in the module. Diligence is aligned with the **OECD Due Diligence Guidance** and the **Responsible Minerals Initiative (RMI)**, reported via the **RMI Conflict Minerals Reporting Template (CMRT)**.

Status of this issue: **Preliminary.** The 3TG content analysis (Section 3) is complete from the BOM. The smelter list (Section 7) and the customer-facing CMRT XLSX are finalised once the supplier CMRTs in Section 5 are collected and rolled up.

2 Scope & Regulatory Framework

Covers the assembled E1M-X V2N module (base variant). Addresses conflict-minerals obligations under **US Dodd-Frank §1502**, **EU Conflict Minerals Reg. (EU) 2017/821**, the **OECD Due Diligence Guidance**, and the **RMI CMRT / RMAP**.

3 3TG Content Analysis

Derived from the released BOM and the Pb-free SAC assembly.

Mineral	Present	Primary source	Where in the module
Tin (Sn)	Yes	SAC solder + terminations	Assembly solder and tin-plated terminations of every placement — board-wide
Gold (Au)	Yes	Finishes + bond wires	IC/SoC bond wires; BGA/QFN/WLCSP finishes; gold-plated connector contacts
Tungsten (W)	Trace	IC die metallization	Tungsten plugs/vias inside IC silicon; via supplier CMRT
Tantalum (Ta)	No	—	Not intentionally present — all decoupling is ceramic MLCC; **no tantalum capacitors** in the BOM

Table 1 3TG presence in the E1M-X V2N module

Note: **Key simplification:** the V2N contains **no tantalum** (all ceramic MLCC decoupling). The tantalum row is declared "not contained". Tin and gold are the materially-present 3TG; tungsten is trace. The lithium supercapacitor (RTC backup) and the LPDDR/flash devices contain no tantalum.

4 Due-Diligence Approach

Alp Lab cascades the CMRT request to suppliers and aggregates declared smelters: collect a current RMI CMRT from each supplier (Section 5); aggregate the declared Sn/W/Au smelters; screen each against the **RMI RMAP conformant-smelter list**; report on the RMI CMRT XLSX, re-issued as data and the RMAP list change.

5 Supplier CMRT Collection Basis

The module smelter list is a roll-up of supplier CMRTs. Tantalum-only sources are not applicable (no tantalum). Every supplier is a potential tin source; IC/SoC/ connector suppliers are gold sources.

Manufacturer	Material 3TG	CMRT on file
Renesas	Sn, Au, W	Locate

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Manufacturer	Material 3TG	CMRT on file
Micron Technology	Sn, Au, W	Locate
Texas Instruments	Sn, Au, W	Locate
Realtek	Sn, Au, W	Locate
Qorvo	Sn, Au, W	Locate
Macronix	Sn, Au, W	Locate
Winbond Electronics	Sn, Au, W	Locate
Kingston Technology	Sn, Au, W	Locate
Infineon	Sn, Au, W	Locate
GigaDevice	Sn, Au, W	Locate
Analog Devices	Sn, Au, W	Locate
Rohm Semiconductor	Sn, Au, W	Locate
Nexperia	Sn, Au, W	Locate
onsemi	Sn, Au, W	Locate
STMicroelectronics	Sn, Au, W	Locate
Toshiba Elec. Devices	Sn, Au, W	Locate
Diodes Incorporated	Sn, Au, W	Locate
Microchip Technology	Sn, Au, W	Locate
Kinetic Technologies	Sn, Au, W	Locate
Murata Electronics	Sn, Au	Locate
TDK Corporation	Sn, Au	Locate
Yageo / Vishay / AVX	Sn, Au	Locate
Samsung Electro-Mechanics	Sn, Au	Locate
Taiyo Yuden	Sn, Au	Locate
Würth Elektronik	Sn, Au	Locate
Abracon / TKD / ECS	Sn, Au	Locate
Micro Crystal / Seiko	Sn, Au	Locate
Samtec	Sn, Au	Locate
Delta / Cyntec	Sn, Au	Locate

Table 2 Component-supplier CMRT collection tracker

Note: Most suppliers publish a company-level RMI CMRT on their compliance/CSR pages. Sources maintained in `supplier-cmrt-index.md`.

6 Declaration Level

Level	Description
Company (default)	A single Alp Lab AB CMRT across all products. Lower maintenance, recommended.
Product	A CMRT scoped to the V2N smelter roll-up. Available on request.

Table 3 CMRT declaration options

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7 Smelter / Refiner List

> **Note: Pending supplier CMRT collection.** The aggregated Sn/W/Au smelter list — each with its RMI Standard Smelter ID and RMAP conformance status — is populated here once the supplier CMRTs in Section 5 are received. The tantalum section is declared **not contained**.

8 Limitations

1. **Downstream declaration** — only as complete as the supplier CMRTs aggregated.
2. **Per-revision / periodic re-issue** — on BOM change and as RMAP/CMRTs update.
3. **XLSX is the formal artifact** — this document is the companion statement.

9 Authorisation

Signed for and on behalf of **Alp Lab AB**:

Name: _____

Title: _____

_____

Date: _____

Signature

Place: _____

10 Revision History

Revision	Changes	Date
0.1	• Initial preliminary declaration with BOM-derived 3TG content analysis (no tantalum; Sn/Au material, W trace) and the supplier CMRT collection tracker. • Awaiting CMRTs and smelter roll-up.	June 2026
0.2	• Release history: every entry formatted as a bullet list.	October 2026
0.3	• Table of Contents: each entry links to its section; the front-matter lists are set tighter.	October 2026
0.4	• Product name on page 1 links to the product page on alplab.ai.	November 2026

Table 4 Document revision history

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