

GLACIER COMPUTER / SEERION AI

TempSight Vision-Based Cold Chain Compliance

Using Zebra Analog Temperature Indicator Labels with Digital Devices

THE PROBLEM: ANALOG INDICATORS LACK DIGITAL INTELLIGENCE

- HEAT — LIMITmarker F-A
- FREEZE — FREEZEmarker
- BOTH — TransTracker CF
- Manual, subjective interpretation
- No digital record or traceability
- No real-time action when excursions occur
- No audit trail for compliance or investigations

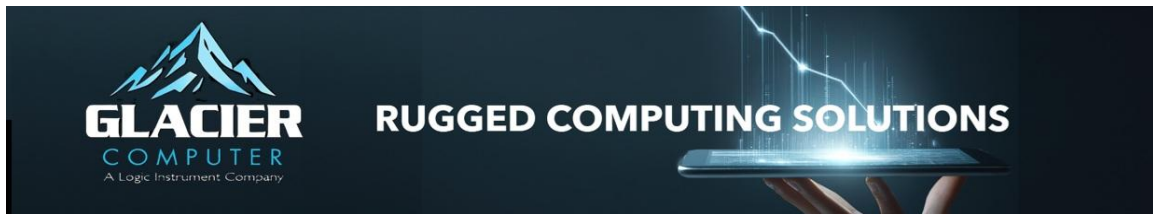
THE SOLUTION: GLACIER COMPUTER / SEERION AI

Digitizing Zebra/Temptime Indicators Using Edge AI

- Mobile Vision AI on Zebra TC701 with camera
- Computer Vision Detection (OK/Breach/Borderline)
- LLM Decision Layer (FDA, HACCP, QSR rules)
- SAP Integration (S/4, EWM, DDIS updates)

SUPPORTED INDICATOR LABELS (EXAMPLES, OTHERS AVAILABLE)





USE CASES

QSR Receiving

- Scan HEAT indicators with TC701
- AI auto-decides accept/reject
- Eliminates subjective checks

Cold Storage Monitoring

- Scan FREEZEmarker labels
- AI logs freeze events with visual proof
- AutoPilot triggers SAP or WMS workflows

Dual-Condition Monitoring

STRATEGIC VALUE

- Unlocks new value from Zebra consumables
- Bridges analog–digital gap
- Zero hardware investment (uses existing TC701 devices)

END-TO-END WORKFLOW

Capture → Detect → Analyze → Execute → Update

- TC701 captures indicator
- Vision classifies state
- AI determines compliance action
- AutoPilot triggers SAP workflows
- SAP updates batch status

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