

PRODUCT SPEC SHEET

COOLDAT - THE UBIQUITOUS COLD CHAIN AUDIT SOLUTION



Gather item-level cold chain data to train your own AI

CoolDat by PULR Technologies Inc. is sold as a bundle of 5 elements as a Coolkit which includes: 1) UHF Autonomous CoolTags, 2) UHF RFID EcoTags, 3) RFID Readers, 4) Fixed & Handheld Reader Apps & 5) a Cloud Backend.

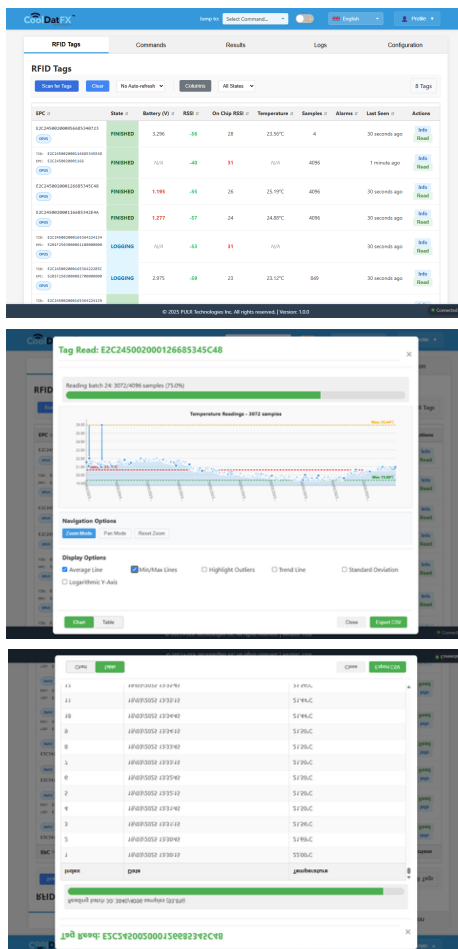


PULR® developed Zebra apps: CoolDatFX for fixed FX RFID readers and CoolDroid for Android RFID readers

CoolDatFX for ZebraFX 7500/9600



CoolDroid for Zebra EM45/RFD40/TC22R



To learn more about CoolDat, The Ubiquitous Cold Chain Audit Solution, please visit www.PULRTechnologies.com/CoolDat or contact your preferred Zebra Reseller



Item 1 – CoolTag (https://www.axzon.com/flexiblepeelinsticklogger.html)			
Dimensions	33 x 100 mm Azxzon AZN5201 Peel’n’Stick Can be printed onto, programmed & armed in Zebra ZT411RFID		
Autonomy	Up to 3 months with printed battery inside the label		
Number of logs	Selectable up to 4096 – Can be fetched even if battery is depleted		
Interval	User selectable (seconds to hours)		
Temperatures	From -35 degrees C to + 35 degrees C		
Alarms	No need to download full log to detect if tag is in alarm state		
Protocol	RAIN RFID		
Quantity	50 in Standard Coolkit		
Item 2 – EcoTag (https://www.beontag.com/rfid-tags-and-labels/product/eco-bumper/)			
Dimensions	24 x 94 mm Beontag 3004387 for insertion into customer labels Sustainable RFID Tag suitable for item-level food package tagging		
Protocol	RAIN RFID		
Quantity	1200 in Standard Coolkit		
Item 3 – RFID Readers			
@Food producer	Fixed or Handheld	1 x Zebra FX or, RFD40 Premium or TC22R	
@Food Retailer	Mobile RFID Phone	1 x Zebra EM45	
Item 4 – RFID Reader Software for Zebra RFID Readers (fixed, handheld or mobile)			
Fixed Readers	CoolTag Arming	CoolDatFX up to CoolTags Qty	
Handheld or Mobile	CoolTag Arming	CoolDroid up to CoolTags Qty	
Any reader	CoolTag Streaming EcoTag Streaming	Streaming of Cooltag Alarms over MQTT Unlimited streaming of all tags over MQTT	
Item 5 – CoolDat Cloud Backend			
MQTT Option 1	Docker images	Google Cloud	Open source EMQX
MQTT Option 2	Managed	AWS	AWS IoT Core
Database Option 1	Docker images	Google Cloud	Open source TimeScale DB
Database Option 2	Managed	AWS	
API	RESTFUL and MCP for AI Agents		
Optional			
Agentic AI	Predictive shelf life (QDat – 1Q 2026) Predictive margin recovery (QRecover – 2Q 2026)		

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