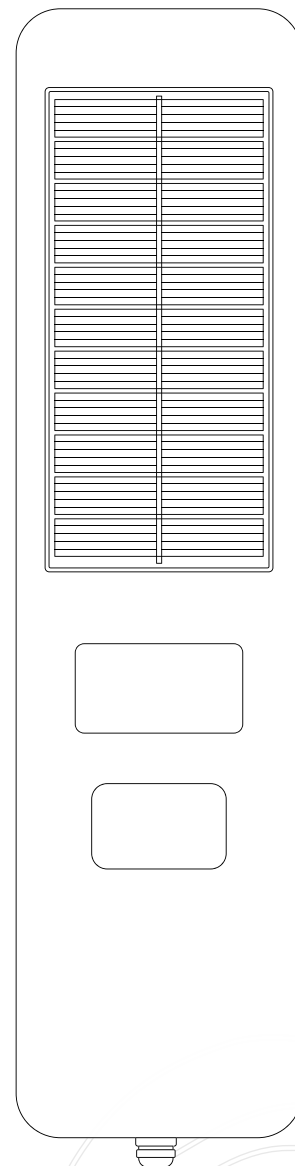
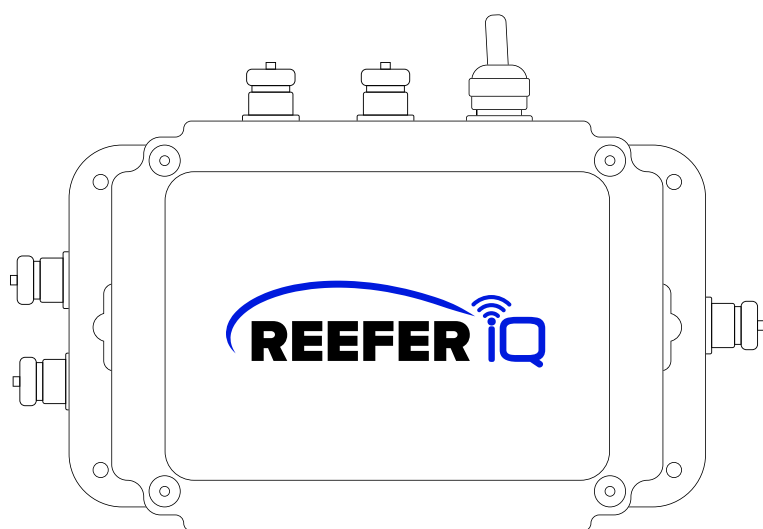




*Next-generation Reefer
Monitoring and Telematics
Solutions Ensure the safety of
your cargo with cutting-edge
reefer monitoring.*



REEFERIQ

REFRIGERATED TRANSPORTATION TELEMETRY



Optimize Fleet Efficiency and Cargo Integrity with Refrigerated Container Tracking Reduce costs, mitigate cargo damage risks, ensure regulatory compliance, and enhance productivity and customer service.

RIQ.NMR262

A fully integrated solution that grabs the essential data from the Klinge NMNR262.

ON/OFF

Set Point

Supply

Return

Operation Mode

Run Hours

SYSTEM 1

ON

-18.00 °C

-18.00 °C

-17.90 °C

AIR FLOW

87 Hrs

SYSTEM 2

ON

-18.00 °C

-19.30 °C

-17.90 °C

WAITING

84 Hrs

ReeferIQ independent sensor probe data.

Supply Probe

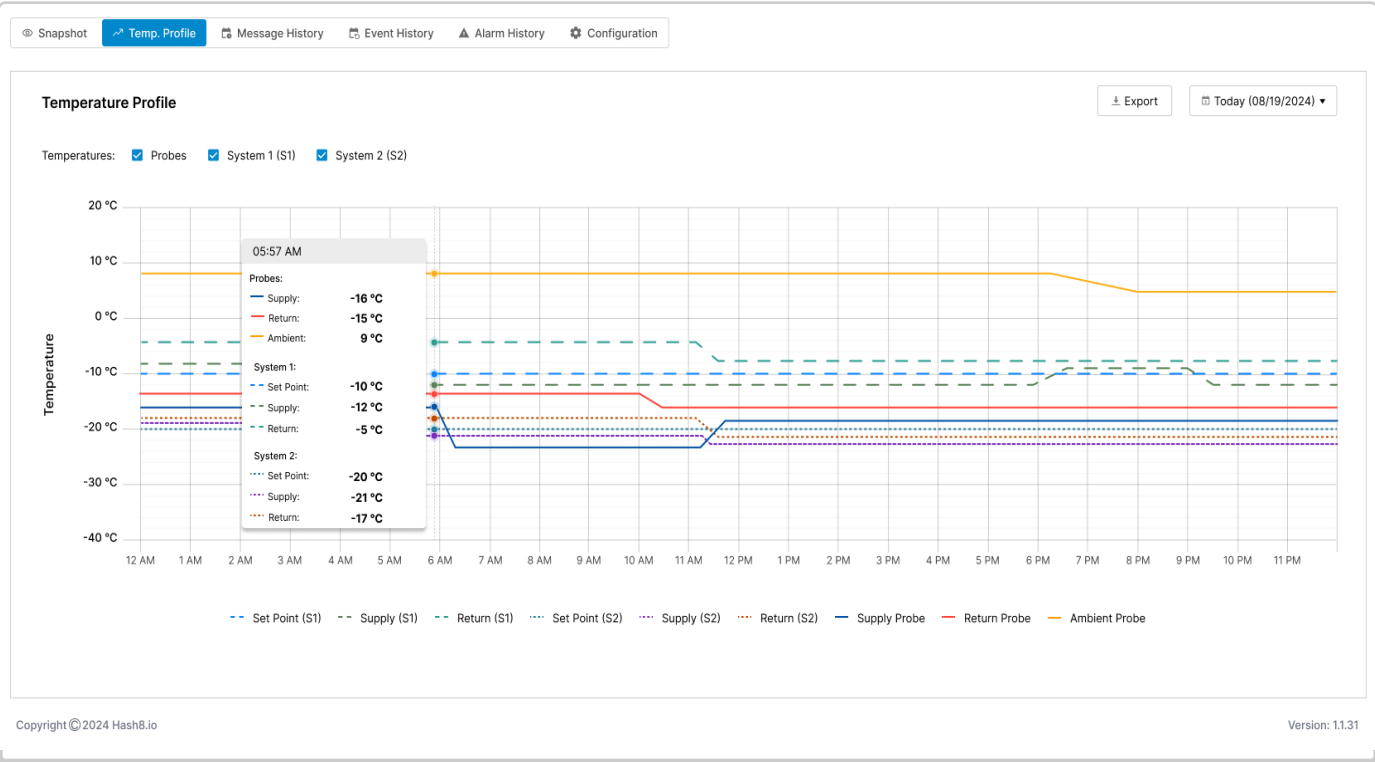
-15.07 °C

Return Probe

-14.40 °C

Ambient Probe

24.06 °C



Optimize Fleet Efficiency and Cargo Integrity with Refrigerated Container Tracking Reduce costs, mitigate cargo damage risks, ensure regulatory compliance, and enhance productivity and customer service.

RIQ.TCR109

A fully integrated solution that grabs the essential data from the Klinge TCR109

ON/OFF

Set Point

Product

Preflow

Operation Mode

Run Hours

ON	-21.00 °C	-21.10 °C	-21.90 °C	Cooling	87 Hrs
ON	-21.00 °C	-21.10 °C	-21.90 °C	Cooling	84 Hrs

Main60.00 Hz

Phase 17.00 A

Phase 210.00 A

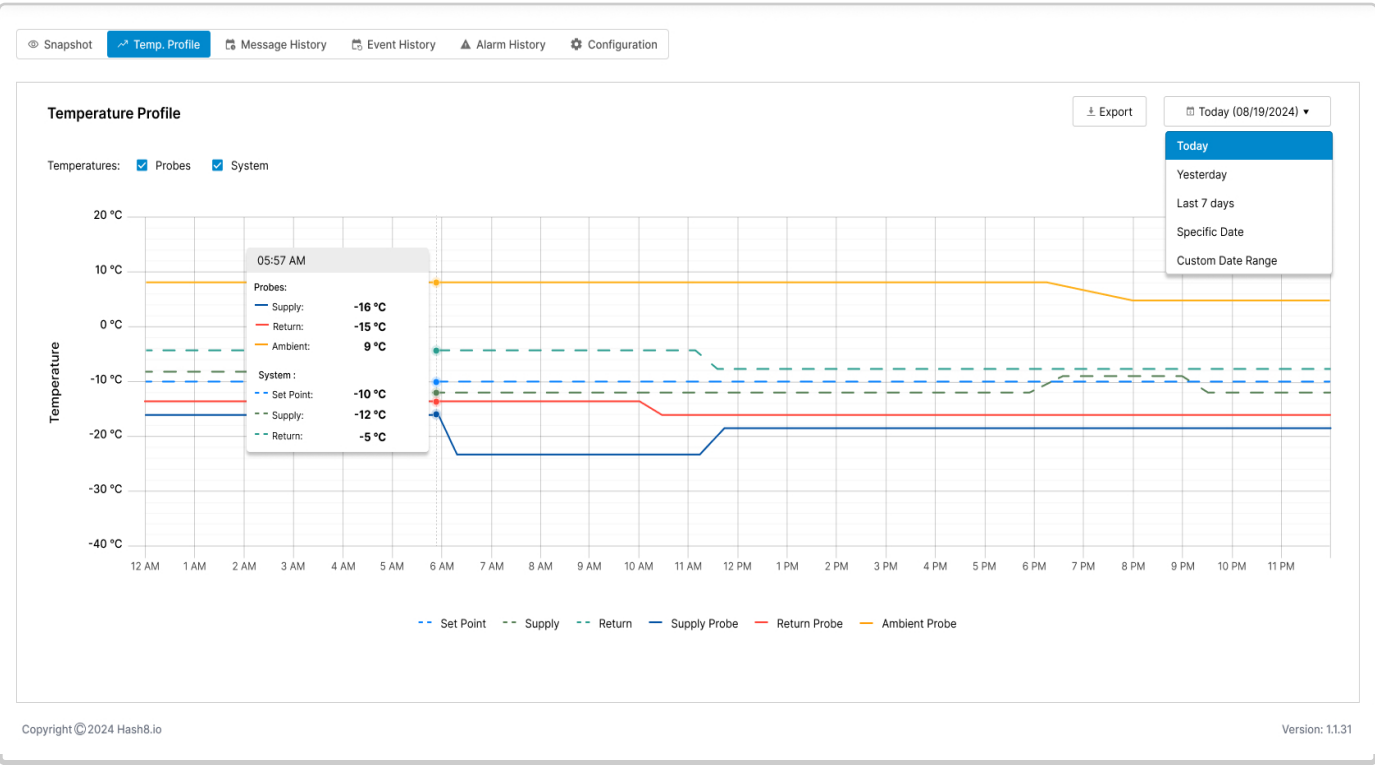
Phase 36.90 A

ReeferIQ independent sensor probe data.

Product Probe-35.03 °C

Glycol Probe-34.74 °C

Ambient Probe28.33 °C



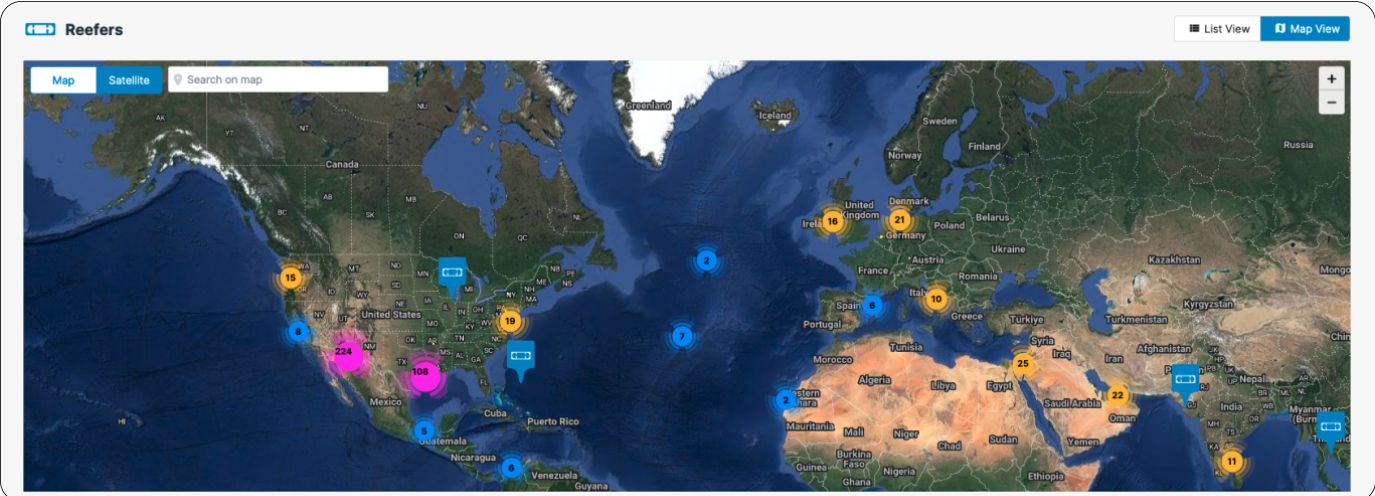
REEFERIQ

ReeferIQ stands out as the most powerful refrigerated transport monitoring system due to its comprehensive range of features and advanced technology. It excels in real-time temperature monitoring and management, ensuring precise control over goods during transit. ReeferIQ's robust analytics provide valuable insights into temperature fluctuations, allowing for proactive adjustments to maintain product integrity and compliance with regulatory standards.

Its user-friendly interface and seamless integration with logistics operations streamline efficiency and reduce operational costs. With its reliable performance and innovative solutions, ReeferIQ is unmatched in optimizing refrigerated transport, making it the preferred choice for businesses seeking superior cold chain management.

Real-time Temperature Monitoring: Monitor cargo temperature remotely and receive instant alerts for any deviations, ensuring product quality and compliance.

Global Positioning System (GPS) Tracking: Track container location worldwide, optimizing logistics and enhancing security throughout the supply chain.



Compatibility and Integration: Seamlessly integrates with Klinge container and ISO systems, leveraging existing infrastructure and enhancing functionality.

Automated Alerts: Advanced set of notifications with details on reffer faults and temperature.

Backup Satellite: Never miss a message with backup satellite communication.

Comprehensive Reporting: Generate detailed reports on temperature history, compliance with regulations, and operational metrics to facilitate audits and decision-making.

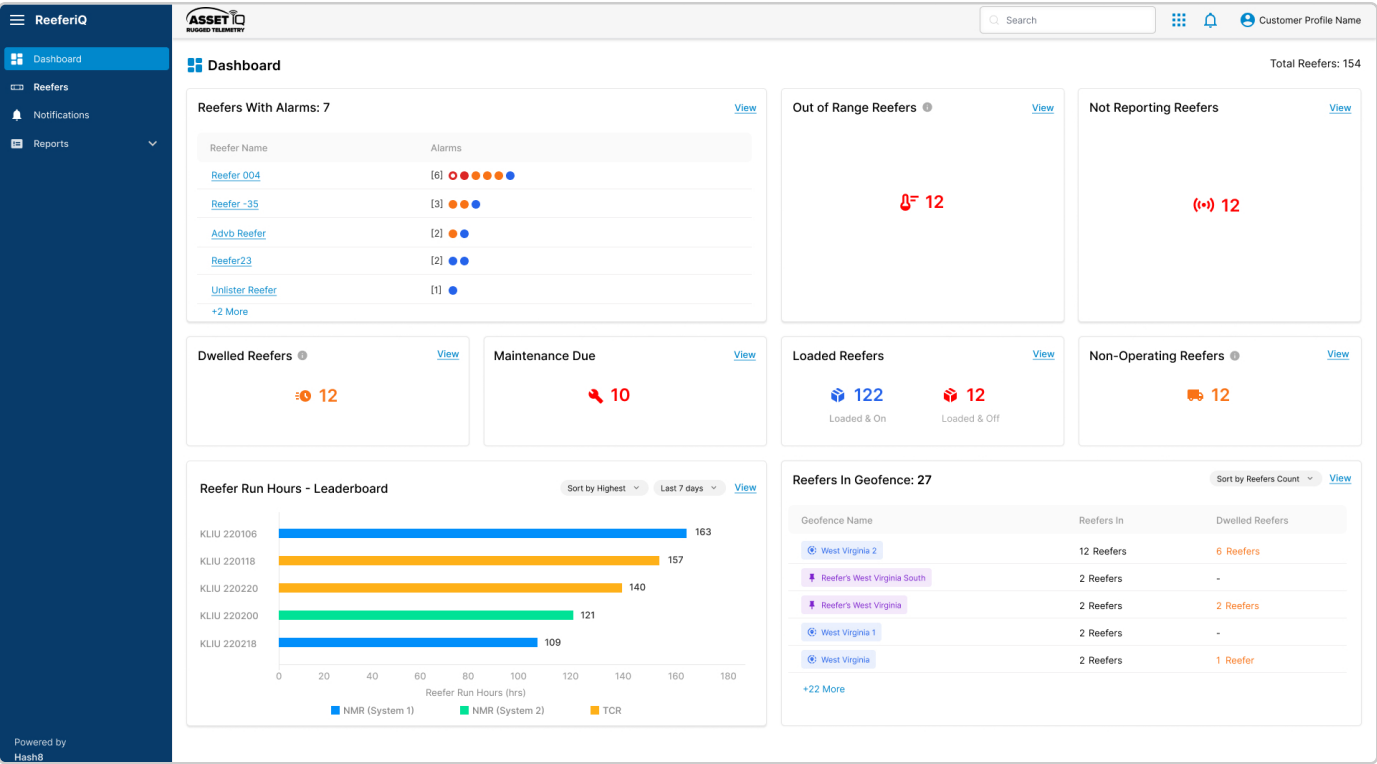
 **Out of Range Reefers**

A Reefer is considered out of range when its Return/Glycol Temp. goes beyond the Set Point Margin.

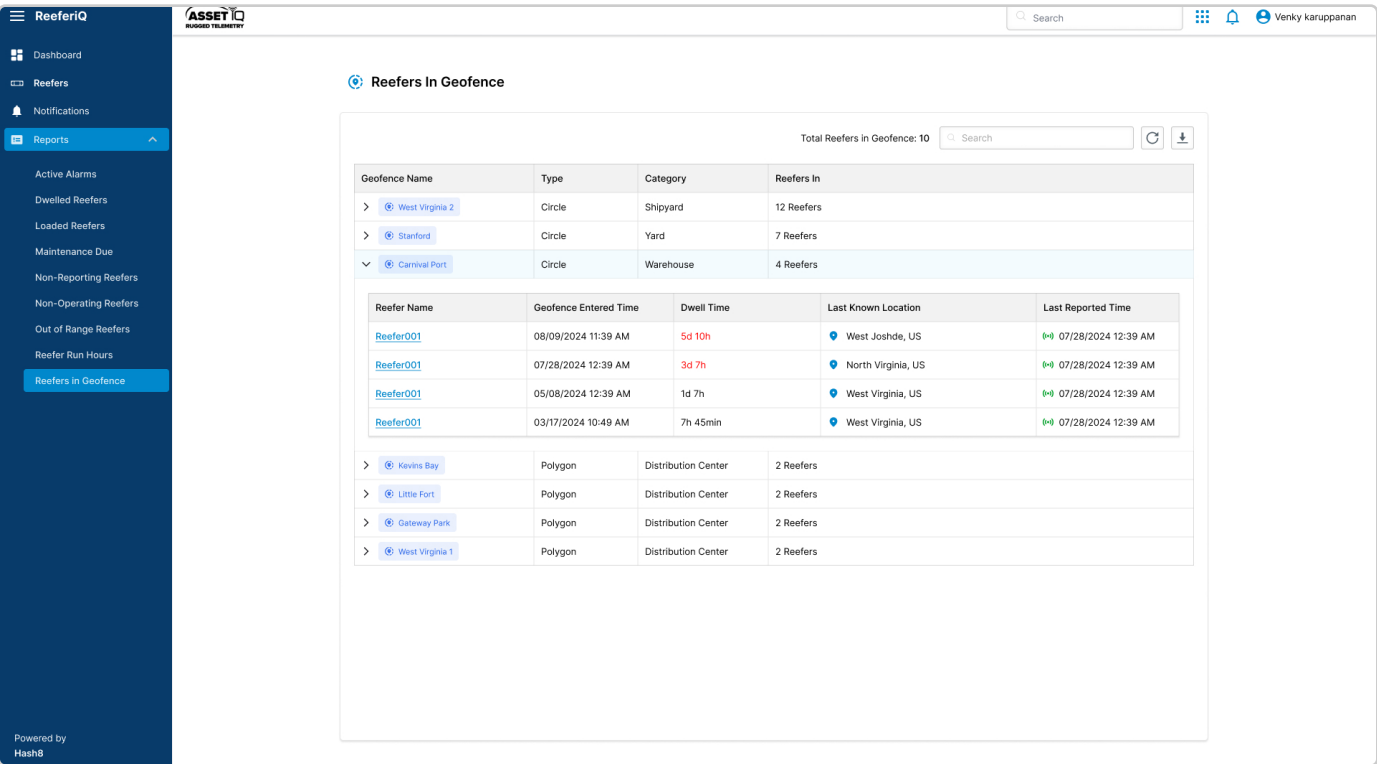
Out of Range Reefers: 4							
Reefer Name	Glycol/Return (°C)	Deviation Duration	Set Point (°C)	Product/Supply (°C)	Ambient (°C)	Set Point Margin	Last Reported Time
Reefer001	23.5 (+5.5)	1d 0h 2min	18	17.5	30	± 5	08/09/2024 11:39 AM
Reefer001	24 (+6)	47min	18	18.5	30	± 2.5	07/28/2024 12:39 AM
Reefer001	13 (-5)	16min	18	18	30	± 2.5	05/08/2024 12:39 AM
Reefer001	28 (+10)	7min	18	18.7	30	± 5	03/17/2024 10:49 AM

REEFERIQ

Data Analytics Dashboard: Gain actionable insights into temperature trends, route efficiency, and operational performance to streamline logistics and reduce costs.



Geofences: get notified when containers leave or entry geofences, Allow customers to see assets while inside of a geofence.



SPECIFICATIONS

RIQ.TCR109 & RT.NMR262

FORM FACTOR

Enclosure	12.4" x 3.1" x 1" (31.5 x 8.1 x 2.6 cm)
Weight	18.9 oz (535 g)

GPS

Location Accuracy	<5m (50%) CEP
Acquisition & Tracking Sensitivity	161.5 dBm
Cold start (open sky)	33s
Hot start (open sky)	<2s (typical)

MOUNTING

Options	Magnet mount VHB Tape Direct Bolts/Screws Rugged cage ATEX protective cage
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ENVIRONMENTAL

Temperature (operating)	-40 C (-40 F) to +70 C (+158 F)
Humidity	100% at 50C, salt, fog per MIL STD 810
Water/Dust	IP67/NEMA6, waterproof full immersion at 1m depth

COMMUNICATIONS

Satellite	Iridium Short Burst Data
1616	1626.5 MHz, Time Domain Duplex; TDMA/FDMA
Cellular	4G LTE Cat-M/2G (standard)
3G	HPSA/2G (GSM Option)
Hybrid	Cellular/Satellite lowest cost routing

POWER

Rechargeable Battery	5300 mAh, 7.2VDC
Battery Cycles	100% DOD >1000 cycles
Fielded battery life (with sun)	7-10 years
Solar Panel	Mono-crystalline silicon 6V, 1W
External Power Input	10-33VDC, up to 500 mA

CERTIFICATIONS

TCU only (sensors have separate certifications)	FCC CFR parts 15 and 25 CE Mark Industry Canada CAN ICES-3 (A) / NMB 3 (A) ETSI EN 301 489-1 V1.9.2 & EN 300 440-2 UL/CSA/EN/IEC 61010-1 ANSI/ISA 12.12.01-2000 Class I, Division 2 CAN/CSA C22.2 No. 213 Class I, Division 2 ATEX Zone 2 Compliant (with ATEX cage) PTCRB Certified
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