

Connected Freight

Eyes on the Inside

If you ship high-risk goods, what you don't know can cost you at any point. That's why Honeywell and Intel have teamed up to bring you deeper, broader insight into the condition of your freight throughout its journey. Connected Freight is a shipment monitoring solution that gives you the data you need, as precise as you need it – even down to the package level – in time to make a real difference for your customers, your bottom line and our world as a whole.

In the quest to improve supply chains, there's a lot of talk about getting "real-time" information. But the reality is that existing monitoring solutions don't help you easily and cost effectively collect, analyze and apply data in time to save time and costs.

Recognizing this gap, Honeywell and Intel have put their supply chain innovations and technology together to bring you Connected Freight. Because when you gain deeper, broader and more immediate insights, you have the tools to lead the industry forward and transform logistics into a competitive edge. With Connected Freight on your side, you can minimize inefficiency and maximize sustainability for your company, your customers and our planet.



Connecting, tracking, and protecting critical shipments – down to the package level – to drive the efficiency the world needs.

FEATURES & BENEFITS



CONNECT

Act fast – even when no connection to the cloud is available. Wherever your freight goes, a single mobile gateway per shipment collects and continuously analyzes data and provides alerts.



TRACK

Cost-effectively track condition data – even down to the package. Small, economical, recyclable sensor tags monitor location, shock and tilt, light, humidity, temperature, theft tampering and more.



PROTECT

When you have eyes on the inside throughout your freight's journey, you can spot and fix problems quickly and dispatch repairs or replacements in minutes, if needed.



ADAPT

From the sensors to the gateways to your fully customizable Command and Control dashboard, you can adapt Connected Freight as you need it.

Connected Freight Technical Specifications

GENERAL		GATEWAY	LIVE STREAMING SENSOR TAG	DATA LOGGER SENSOR TAG
DESCRIPTION		Collects all sensor parameters from multiple wireless sensor tags, tracks location and publishes to the cloud	Measures all sensor parameters and publishes real-time to gateway	Records all sensor parameters and publishes on-demand to cloud
MODEL NUMBER		3G-ST-THALP-C1	RTHAL-C1	RTHAL-C1
PART NUMBER		3G-ST-THALP-C1	RTHAL-C1ZB	RTHAL-C1BT
MECHANICAL		GATEWAY	LIVE STREAMING SENSOR TAG	DATA LOGGER SENSOR TAG
DIMENSIONS		87 mm x 149 mm x 18 mm (3.42 in x 5.87 in x 0.71 in)	100 mm x 63 mm x 10 mm (3.94 in x 2.48 in x 0.39 in)	100 mm x 63 mm x 10 mm (3.94 in x 2.48 in x 0.39 in)
WEIGHT		230 grams (8.11 oz)	45 grams (1.59 oz)	45 grams (1.59 oz)
ENVIRONMENT		GATEWAY	LIVE STREAMING SENSOR TAG	DATA LOGGER SENSOR TAG
OPERATING TEMPERATURE		-20°C to 60°C, 95 %RH		
STORAGE TEMPERATURE		-20°C to 70°C		
DROP		1.2 m (4 ft) to concrete, across operating temperature range		
VIBRATION		MIL-STD-810, Method 514.6, Cat 7		
SHOCK		MIL-STD-810, Method 516.6, Sawtooth shock pulse, 30g @ 11ms		
SYSTEM		GATEWAY	LIVE STREAMING SENSOR TAG	DATA LOGGER SENSOR TAG
BATTERY		Li-Ion, Rechargeable, 3.6 V, 4040 mAh, 14.6 Wh	Primary Lithium Cell, non-rechargeable, 3.0 V, 600 mAh, 1.8 Wh	Primary Lithium Cell, non-rechargeable, 3.0 V, 600 mAh, 1.8 Wh
BATTERY LIFE		15 days on one charge* *Nominal Operating Conditions: 23°C, Tag Heart Beat - 1 minute, Gateway transmits data to cloud every 15 minutes	Up to 60 days*	Up to 60 days** **Nominal Operating Conditions: 23°C, Tag Heart Beat - 5 seconds, Recording Interval - 10 minutes, 2 uploads to cloud
RADIOS		GATEWAY	LIVE STREAMING SENSOR TAG	DATA LOGGER SENSOR TAG
WWAN		3G - WCDMA Rel 9 (HSDPA 21Mbps cat14/HSUPA 5.76Mbps cat6), Quad band (1/2/5/8), 2G - GSM/GPRS/EDGE (multislot class 10), Quad band support (850/900/1800/1900)	-	-
WLAN		IEEE 802.11 b/g/n	-	-
GPS		GPS / GLONASS, w/ AGPS and SBAS	-	-
PAN		BT 4.0 / BLE (2.4 GHz) IEEE 802.15.4 (2.4 GHz)	IEEE 802.15.4 (2.4 GHz)	BT 4.0 / BLE (2.4 GHz)
SENSORS		GATEWAY	LIVE STREAMING SENSOR TAG	DATA LOGGER SENSOR TAG
LIGHT		460 nm – 656 nm, 0.01 Lux – 30K Lux	460 nm – 656 nm, 0.01 Lux – 83K Lux	
TEMPERATURE			-10°C to +60°C (Typical Accuracy: ±0.5°C) -20°C to -10°C (Typical Accuracy: ±1.5°C)	
HUMIDITY			0% to 90%RH (Typical Accuracy: ±5%)	
SHOCK			±16 G (Typical Accuracy: ±1 G)	
TILT			15° to 180° (Typical Accuracy: ±5°)	

For more information

www.honeywell.com/freight

Honeywell Safety and Productivity Solutions

9680 Old Bailes Road
Fort Mill, SC 29707
www.honeywell.com

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