

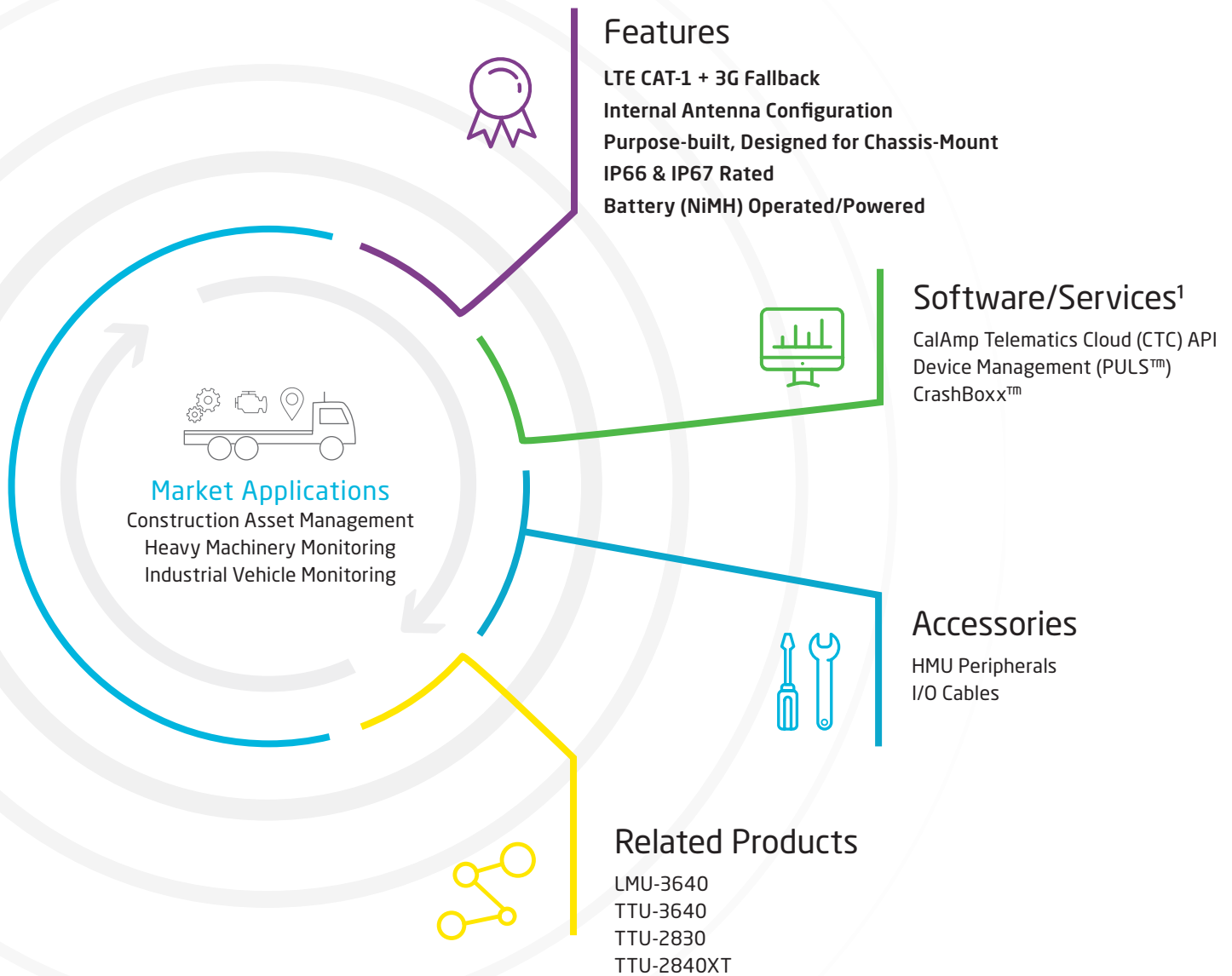
HMU-3640™

LTE CAT-1



Heavy Duty Telematics Gateway Built Exclusively for Construction Environments

The HMU-3640™ LTE CAT-1 is a telematics gateway designed to support heavy machinery applications and is equipped with a NiMH battery, IP66 & IP67 rated and can withstand construction-grade environments, thermal and shock. Users have the flexibility to create parameters of interest to integrate tailored intelligence from the equipment and capture insights and analytics.



H3640Q319DS 5-B

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¹ Subscription service enabled. Contact sales rep for additional details.

Cal/Amp®

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HMU-3640™ LTE CAT-1 Technical Specifications

Cellular/Network

North American Variant	
LTE CAT-1	1900 (B2)/AWS 1700 (B4)/850 (B5)/700 (B12) MHz
HSPA/UMTS	850 (V)/1900 (II) MHz

Data Support

SMS, TCP, UDP

Satellite Location (GNSS)

Constellation Support	Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)
Channels	55 Channel
Tracking Sensitivity	-167 dBm
Acquisition Sensitivity	-156 dBm (hot start) -148 dBm (cold start)
Location Accuracy	~2.0m CEP Open Sky (SBAS 24 hours static)
Location Update Rate	Up to 4 Hz
AGPS Location assistance capable	

Comprehensive I/O

Ignition Inputs	1 fixed bias
Digital Inputs	1 (high/low bias selectable 0-32 VDC)
Digital Outputs	1 (open collector relay 150mA)
Accelerometer	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)
Analog Inputs	1 (external ADC inputs, 0-32 VDC)
Status LEDs	4 (GPS, cellular, Wi-Fi/BT, CAN)

Certifications

Industry Certifications FCC, IC, PTCRB, RoHS

Cloud/Software Services¹

PULS™	Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely
CTC	Device data stream via RESTful APIs

Edge Intelligence¹

PEG™ Update device functionality or develop new on the edge applications

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Electrical

Operating Voltage	12/24 VDC Vehicle Systems 9-32 VDC (start-up, operating) 7-32 VDC (momentary)
Power Consumption	Typical 500uA @ 12V (deep sleep) Typical 20mA @ 12V (radio-active sleep) Typical 100mA @ 12V (GPS tracking and cell idle)

Battery Pack

Battery Capacity	500 mAh
Battery Technology	Nickel-Metal Hydride, NiMH
Charging Temperature	0° to +40° C

Environmental

Temperature	-30° to +75° C (connected to primary power) 0° to +50° C (operating on internal battery) -20° to +25° C ≤ 6 months (long term storage with battery)
Humidity	95% RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G, 810F, SAE J1455
ESD	IEC 61000-4-2 (4KV test)
Ingress Protection Rating	IP66, IP67

Physical/Design

Dimensions	7.0 x 3.0 x 1.57" (178 x 76 x 41 mm)
Weight	8.8 oz. (250 g with 500mAh Battery)

Connectors/SIM Access

VBUS I/F Power, I/O	12-Pin Mini-Deutsch Connector
SIM Access	Internal (2FF SIM)

Interface Standards

Heavy Duty Truck Data	J1939
Serial Interface	RS-232 & RS-485

Product Options

Bluetooth Low Energy (BLE) 5.0
Wi-Fi 802.11 a/g/b/n client mode
CalAmp Telematics Cloud API

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WARNING:

This product can expose you to chemicals including Carbon black and Nickel, which are known to the State of California to cause cancer, and including Bisphenol A and 1,3-Butadiene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov