

BT 320

Comprehensive reefer management

Two-way temperature control and alerts, accurate asset tracking, live and historical status updates for refrigerated trucks and trailers.



The BT 320 delivers an extensive temperature, reefer fuel and maintenance management solution for refrigerated vehicles with two-way reefer controls, temperature compliance data, accurate location tracking, EBS connectivity and real-time alerts. Integrated with FleetManager, the BT 320 allows customers to continuously monitor and maintain the integrity of temperature-sensitive cargo out on the road.

Compatible with any Reefer Unit

Interfaces directly with any reefer unit from Carrier, Thermo King and other industry-leading controllers and dataloggers.

Two-way Controls

Initiate trailer pre-cooling and defrost, change the reefer state and adjust the temperature of reefers on the road—all from the back office—with two-way controls.

Alerts and Notifications

Real-time monitoring provides instant alerts and notifications for hardware malfunctions, temperature variations from set points, rapid fuel loss, arrivals/departures from geofences, and when assets have a prolonged dwell time in a specific location.

EBS Brake Systems Data

Improve yard management and asset utilization with trailer weight data showing if trailers are empty or full. Fault codes and “actual distance covered” data improves maintenance management.

Fast, Reliable Data

Take advantage of the higher performance and reliability of 4G LTE networks.

Advanced Sensors

Add door switches, additional temperature sensors and fuel level sensors through multiple inputs and outputs.

Built Tough

The BT 320 is extremely ruggedized and has been tested under extreme conditions to ensure its ability to withstand even the harshest of working environments. It can operate within temperature ranges of -40°F to $+185^{\circ}\text{F}$.

Two-way temperature monitoring and control

Intelligent alerts and notifications

Reefer fuel and maintenance management

Connectivity to EBS braking systems

Integrates with third-party TMS systems

Built to operate in harsh environments

Faster, more reliable data

**Direct interface to all refrigeration transportation units**

- Carrier Transicold Vector, APX, standard, advance
- Carrier Transicold Multi-Temp (standard, vector)
- Carrier Solara
- Thermo King SR3, SR2, μ PIV, μ PV, μ PVI
- Thermo King μ PT straight truck/multi-temp
- Thermo King Multi-Temp (Spectrum μ PIV, SR2)
- Thermo King TGV, TGV1 (Standalone)
- Mitsubishi TU Series

Event response time

- < 1 second typical

Sensors/optional sensors

- GPS, fuel, door open/closed, tethered
- Remote or independent temperature probes, movement/stationary, virtual mileage, engine hours
- Door lock/unlock, shock/tri-axial impacts
- EBS braking modules

Monitoring and control functions

- Monitors all microprocessor alarms (critical, non-critical)
- Change set point
- Remote on/off (if equipped)
- On/off event reporting
- Change mode of operation
- Change controlling sensors
- Clear alarms
- Run pre-trip
- Preventative maintenance settings
- Intellisets
- Temperature profile graph
- Independent temperature alerts

Mechanical

- 89 mm x 25 mm x 127 mm
- 9.9 oz

Electrical

- Input voltage: 9 VDC to 36 VDC
- Power: < 2W average
- Load dump protected
- 3000 mA internal battery
- Power management

Certification

- FCC: CFR 47 and 15
- CE: EN 301 721, EN301 489-20, EN300 832
- PTCRB
- RoHS

Environmental

- Operating: -40°F to +185°F
- IP69K Rated

External Interfaces

- Bluetooth 5
- Digital I/O: 1 x I/P, 2 x I/O
- Serial I/O: 2 x RS232
- GNSS: GPS, Galileo, Glonass, SBAS, QZSS, 72-ch
- CAN: 2 x ISO 11898-2/5
- 1 x J1708
- 1 x ADC

Motion

- Accelerometer 3 axis +/-8g
- Gyroscope 3 axis +/-2000°/s

Communications

- Cellular (NA)
 - LTE Bands 2, 4, 5, 12
 - 3G HSPA Bands 2, 5
- Cellular (EU)
 - LTE Bands 3, 7, 20
 - 2G Edge Bands E-GSM, DCS
- Cellular (AUS / NZ)
 - LTE Bands 3, 8, 28
 - 3G HSPA Band 1

Integration partners

- Innovative Computing Corp
- TMW System (Suites, ICC)
- McLeod Software
- Add On Systems
- SSI
- Prophecy
- TMS Connect - kasasi
- Schmitz Cargobull

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