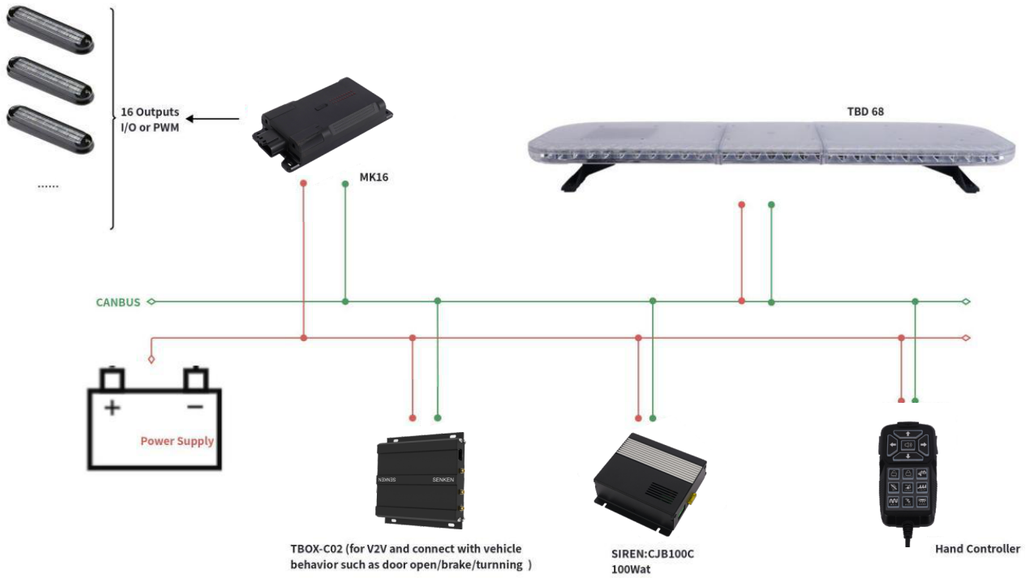
SENKEN CANBUS SYSTEM

System Composition

Built on police equipment interconnection architecture, the system consists of BOX smart control hub, TBD68 long light bar, 100W siren amplifier, hand controller, MK module, programmable accessories and matching fittings. Full sets are available, with all equipment fully tested and practically verified before on-site deployment.



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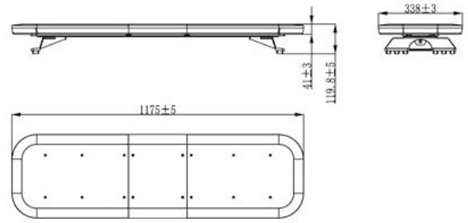
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Making The World Safer

Product Specifications & Functions

TBD685124B Light Bar





Key Specifications

- 198 × 3W high-brightness LEDs, delivering powerful warning illumination.
- Electrical: DC12V; No-load ≤200mA, Full-load ≤20A
- Optical: Integrated red/amber/blue/white multi-color light; 9 standard flash patterns, custom modes available; flash frequency 1-3 Hz
- Physical: 1175×338×119 mm
- Operating temperature -40°C～ +75°C
- Certifications: Complies with ECE-R65, SAE J845/J595 for police, fire, medical & engineering special vehicles

Main Advantages

- Customizable flash patterns: PC-software online debugging; flexible waveforms/rhythms.
- CAN-Bus support: Synchronize muliple devices, pre-store light functions for full-vehicle refitting.
- 4-color multi-scene warning: Fitst law-enforcement, rescue, ambulance and emergency engineering vehicles.
- High-efficiency LED: Low power draw, long service life, steady continuous warning output.
- Ultra-thin wind-resistant housing: Reduces high-speed wind resistance, improves vehicle stability.
- Optimized reflective optics: Boost light efficiency, irradiation distance and coverage.
- Modular splicing: 235 mm unit spacing; freely adjustable total length for simple installation on various special vehicles.

CJB100C 100W Siren Amplifier



This 100 W multi function on board siren amplifier works for 12/24V special vehicles (police, ambulance, fire, engineering). It integrates siren tones, PA public address, radio feedback and 4 channel light control.

Key Functions

- PTT Talk Button: Highest priority PA microphone; mutes other audio while broadcasting.
- MAN Manual Siren Tone: Long press for gradual WAIL Wail tone; short press cycles built in siren modes.
- HORN Air Horn: Tap for instant rich air horn tone; triggerable via vehicle steering wheel horn wire.
- SIREN Master Switch: One key siren audio on/off.
- RADIO Feedback: Syncs vehicle radio audio to siren speaker; silences siren when active.
- SW1 SW4 4 Channel Light Output: Max 5 A per channel, for strobes & warning light bars.

External Expansion

- Ignition controlled power (connect to vehicle ACC; direct battery connection forbidden to avoid power drain)
- Steering wheel horn trigger input
- Radio audio input
- Speaker output for 100 W / 11 Ω dedicated siren speaker

Technical Specifications

- Input Voltage: DC 10-30 V
- Siren Output Power: 100W, matched speaker impedance 11Ω
- Operating Current:
- Siren only: 12V/10A, 24V/5A
- All 4 light channels active: 12V/30A, 24V/25A
- Operating Temperature: -40℃ ～ +65℃
- Dimensions: 125×130×40 mm

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Hand Controller KZQ85



An integrated handheld controller for special vehicle light & audio systems, usable handheld or fixed mounted. It has a built in microphone for real time PA public address.

Operation & Light Control

- All functions are programmable and customizable via PC software.
- 9+5 independent backlit assignable keys, including dedicated talk and volume adjustment buttons.
- Multi level adjustable warm white key backlight for night time visibility.

Electrical & Communication

- CAN 2.0 bus communication, simplifies rewiring for emergency vehicle refits.
- Wide input voltage: DC 10-30V , fits commercial & emergency vehicles.
- Extended audio: TF card MP3 local audio playback.
- Environmental & Compliance
- Operating temperature: -40℃ ～ +65℃
- IP54 dust proof and water proof rating

Interfaces

- CAN BUS interface: works with special vehicle centralized light control systems.
- USB port: for program read/write, function customization and mode debugging.

Mk16 Module External Expansion Interfaces



A 16 channel independent PWM dimming power module for special vehicle lighting systems.

Electrical Parameters

- Input Voltage: DC 12/24V
- Max total peak input current: 60A
- Single channel: Peak 6A, RMS 3A; 16 independent dimming outputs
- Total load capacity: 45A RMS @65℃ ; 27A RMS @85℃ , peak 60A at all temperatures
- Channels can be paralleled to drive high power lamps; 3 channel parallel supported in project.

Output Features

- 16 PWM dimming outputs (OUTPUT1 16)
- Each channel has dedicated status LED for real time working feedback.
- Interfaces
- CAN BUS: Vehicle standard CAN 2.0, compatible with special vehicle centralized light control systems
- USB C: For program read/write, function customization and mode debugging.

Environmental & Physical

- Operating temperature: -40℃ ～ +85℃
- Ingress rating: IP69K, high pressure water jet resistant, dust proof, for chassis / roof harsh outdoor mounting
- Dimensions: approx. 30 × 164 × 78 mm, compact for concealed installation.

Status Indicators

- Channel 1 16 LEDs: Steady = constant output; flashing = PWM dimming
- Power LED: Lit when powered on normally
- CAN BUS LED: Flashes during bus data transmission
- Fault LED: Alerts over temperature, short circuit or load faults
- USB C Debug LED: Flashes during programming & data transfer

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LTE2135A Traffic Advisor



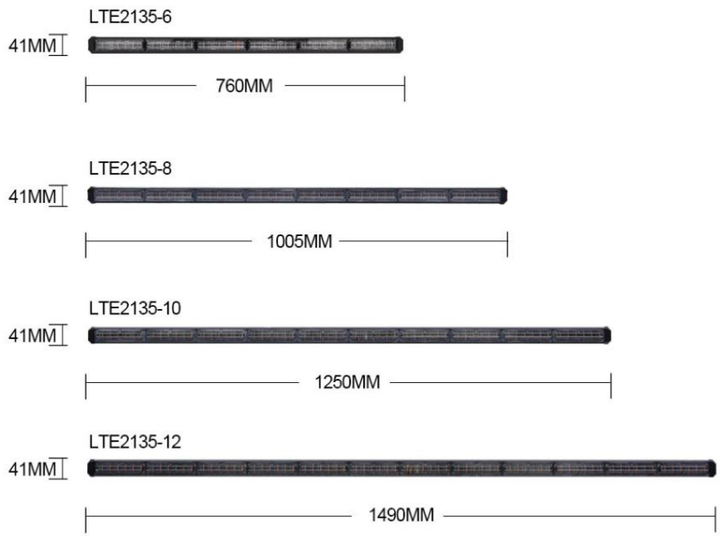
LED traffic advisor warning bar built for special emergency vehicles.

Key Specifications

- Electrical: DC 12V operating voltage; operating current ≤10A
- Optical: Available in red, amber, blue, white; multi color combinable. Complies with ECE R65, SAE J595.
- Environment: Operating temperature -40℃ ～ +75℃ ; IP66 protection rating.

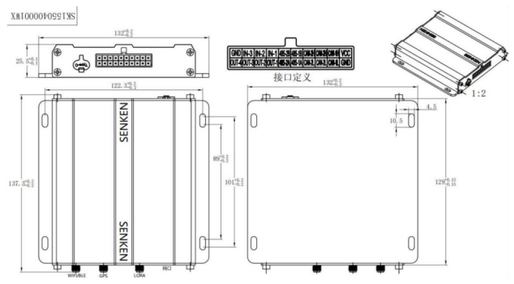
Functions

- 12 pre programmed flash patterns.
- Flash waveforms, strobe logics & rhythms fully customizable via PC software.
- Product Variants (height: 41 mm)
- LTE2135 6: 760 mm
- LTE2135 8: 1005 mm
- LTE2135 10: 1250 mm
- LTE2135 12: 1490 mm



BOX Smart Control Hub





Vehicle mounted communication terminal links police warning peripherals and collects vehicle CAN bus data for fleet management.

Electrical

- Wide input voltage: DC 9-36V, fits gasoline & diesel special duty vehicles
- Standby current: <1A, low battery drain during long term standby
- Environmental & Mechanical
- Operating temperature: -40℃ ~ +85℃ , for all weather outdoor & cabin use
- Aluminum alloy compact housing; dimensions: 131.7 × 125.3 × 21.5 mm
- Shock proof & dust proof; non waterproof, install in dry, ventilated areas away from heat sources
- 20 pin integrated harness plug for simple wiring and maintenance

Core Vehicle link Functions

1.Automatic police light linkage with vehicle signals:

- Door induction: Turns off corresponding warning bar side light upon door opening
- Brake signal: Rear light bar stays lit, rear screen shows “Braking”
- Hazard light sync: Triggers warning lamp strobe
- Turn signal sync: Activates side warning lights with turn prompt on rear display

2.CAN bus data auto upload for digital fleet management: odometer, real time fuel level, full trip fuel consumption statistics.

Communication Interfaces

- CAN1: Reads native vehicle driving status data
- CAN2 / CAN3: Connects warning light bars, displays & police devices
- 485 1 / 485 2: Multi channel RS485 for extended peripherals

Antennas

- GNSS: Beidou + GPS dual mode high gain positioning antenna
- LoRa: 470 MHz rod antenna (3 dBi gain) for long range wireless transmission
- Independent separated antenna ports for Wi Fi/Bluetooth, GPS, LoRa to avoid signal interference