Siera Electronics





SXM TA7/0701

7" Smart Vehicle Terminal with Android, 4G and Video Integration.

Siera Xtreme Mobile is a line of MNDVRs, dashcams, and bodycams with advanced features designed to meet all the needs of the mobility market.

Key Specifications

- Android vehicle terminal with 7" touchscreen
- 1024 × 600 resolution and minimum brightness of 500 cd/m²
- 1.2 GHz quad-core processor
- Built-in 4G LTE and Wi-Fi
- Satellite positioning for vehicle management
- Supports up to 2 AHD 720p or CVBS cameras
- Built-in microphone and speaker
- IC and RFID ISO 14443 A/B reader
- 2 RS232 ports and USB OTG
- TF card expansion up to 2 TB
- 12/24 V vehicle power supply
- SDK and support for third-party applications

TERMINAL AND DISPLAY	
Operating system	Android 7.1
Processor	32-bit Cortex-A7, 4 cores, 1.2 GHz
Memory	1 GB RAM / 8 GB ROM
Display	7-inch touchscreen LCD
Resolution	1024 × 600
Minimum brightness	500 cd/m²
Installation	Dashboard-mounted, with mounting bracket
Weight	735 g
COMMUNICATION AND POSITIONING	
Cellular network	4G LTE; FDD bands B1/B3/B5/B7/B8/B20/B28
SIM card	1 × Micro SIM
Wi-Fi	Built-in; wireless hotspot function
Satellite positioning	GPS/BeiDou configuration indicated for the system. Resources and constellations depend on the installed module.
Tracking sensitivity	-162 dBm
Positioning time	Cold start: ≤32 s; hot start: ≤1 s; request: ≤1 s
Positioning antenna	Open-circuit and short-circuit detection
VIDEO AND AUDIO	
Video inputs	Up to 2 channels for AHD 720p or CVBS cameras
Camera connectors	2 aviation-type connectors
Video interface electrical range	9–16 V
Microphone	Built-in for audio capture
Speaker	Built-in, 8 Ω / 1.5 W
OPERATING FUNCTIONS	
Applications	Taxis, ride-hailing, cargo transportation and driver training
Driver management	Remote data import and updating; capture and transmission of evidence according to configured conditions
Facial authentication	Driver login and authentication; offline facial recognition with up to 5 profiles per terminal, using compatible camera and application

WARRANTY 3 YEARS

Siera reserves the right to apply changes on the specifications of the products at any moment without prior notice.
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Taxi services	Calls, navigation, driver information and integration with taximeter, roof light and status indicator
Operational monitoring	Presence verification, manual alarm and incident logging; monitoring of operation without a taximeter, driver change and operation outside the region, according to the integration
Parameter / Section	Technical Description (English)
Payments and receipts	QR code payment functions and online/offline verification; printing and electronic receipts via compatible application, platform, and peripherals.
Service evaluation	Three evaluation keys: satisfied, average, and dissatisfied; sending results to the platform.
Information and alarms	Messages, events, and data feedback; fault, driving, and service alerts.
RECORDING AND REMOTE ACCESS	
Recording	Cyclic (loop recording); automatic start upon powering on the terminal via ignition.
Live view & playback	Live preview and recording search/playback.
Export	Via USB; playback of card files on a computer with a compatible player.
Remote access	Video query via platform compatible with JT/T 1076.
Expandable storage	TF card up to 2 TB; capacity depending on configuration.
SOFTWARE AND INTEGRATION	
Platform protocols	JT/T 905, JT/T 808, and JT/T 1076, depending on function.
Development	SDK for application integration and development; third-party app installation.
Updates	Local via TF card and remote via Wi-Fi/4G; differential update and compatible peripherals update.
Voice synthesis	TTS in English.
Interface languages	English.
Customization	Boot image, animations, background music, and application interface.
Diagnosis and maintenance	Terminal and peripherals self-test, serial debugging, and historical data export.
Clock	Synchronization via cellular network or satellite positioning; integrated RTC.
Collected data	Audio, video, position, images, alarms, and operational data.
INTERFACES AND CONTROLS	
Serial ports	2 x RS232 for taximeters, LED signs, and other peripherals.
USB	Micro USB with OTG; data debugging and export.
Card reader	Contact IC and contactless cards ISO 14443 A/B.
Physical keys	7 keys: home, navigation, video, back, and three evaluation keys; customizable functions.
Digital inputs	2: one negative for emergency alarm and one positive for ACC (ignition).
Digital output	1 for fuel/power cutoff relay command.
Peripheral power supply	1 x 5 V / 0.1 A output and 1 x 11 V / 0.5 A output.
Attitude sensor	Available (G-Sensor).
POWER AND ENVIRONMENT	
Nominal voltage / range	12/24 V / 9–36 V.
Power consumption	12 W.
Low power consumption current	<2 mA in protection mode after turning off ignition and detecting low battery.
Power management	Screen shutdown with ACC off; scheduled wake-up and position uploading; low battery shutdown.
Electrical protections	Overvoltage and battery over-discharge protection; multi-stage protection.
Operating temperature	-25 °C to +70 °C.
Storage temperature	-40 °C to +85 °C.
Humidity	≤95%
Environmental reference:	JT/T 794—2019; declared grade A for humidity

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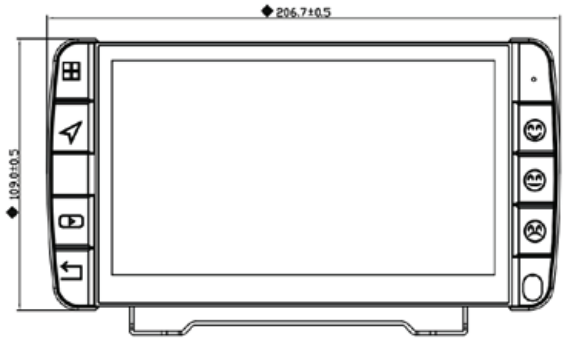
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DECLARED ELECTROMAGNETIC COMPATIBILITY	
Ignition interference	GB/T 19056: grade A.
Power supply transients	ISO 7637-2: grade A on P2a, P3a, P3b, and P5; grade C on P1, P2b, and P4.
Conducted and radiated emissions	GB/T 18655: level III.
Radiated immunity / current injection	GB/T 17619: 24 V/m and 48 mA, grade A.
Electrostatic discharge (powered on)	GB/T 19951: contact ±6 kV and air ±8 kV, grade A.
Electrostatic discharge (stored)	GB/T 19951: contact ±6 kV and air ±15 kV, grade C.

KIT AND OPTIONS	
Kit items	Terminal, positioning antenna, installation harness (wiring structure), bracket and screws, driver card, documentation, and L-type (Allen) wrench.
Options	External cameras, emergency button, and cutoff relay.
Function integration	Transport services, payments, navigation, and monitoring depend on compatible application, platform, and peripherals.
Warranty	3 years*.



*as per https://sieraelectronics.com/en/warranty/

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