ATRON CONNECTS

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Product sheet

ATRON ACT 430



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1 ATRON ACT 430 mobile - Smart card terminal



Self-service terminal with EMV reader for electronic ticketing

The ATRON ACT 430 mobile is a self-service smart card terminal, which is tailored specifically for the requirements of electronic ticketing.
It is used as a validator, a point-of-sale terminal, a check-in/check-out terminal, or a combination of these.

The device features an elegant and ergonomic design. The arrangement of the large display and the card reader allows for a quick and intuitive operation.
The ACT 430 mobile features a bright, high- resolution 7-inch (17.8 cm) color touchscreen with adaptive brightness control, making it highly readable even in difficult lighting conditions. The integrated touchscreen enables more advanced interactions with passengers, such as ticket selection or, for example, selecting fellow travelers.

The PCI and EMV-certified card reader not only processes contactless smart cards based on the ISO/IEC 14443 standard,
but additionally supports contactless payment and Account Based / ID ticketing with contactless debit and credit cards.

In addition to the display, three LEDs (“traffic lights”) and an audible signal inform the passenger of the result of a check-in or verification process. A speaker with an amplifier is built in for audio output; its audible signals can be clearly heard even in noisy environments.

Technical data*

Feature	Description
Housing material	Plastic ABS / UL94-V0 Color – Standard: slate grey (RAL 7015) – **Option**: Custom colors as agreed
Type of assembly	– Tube mounting (diameter 25.4 - 40 mm) – **Option**: Custom specific tube mounting / diameter – **Option**: Wall bracket – **Option**: Customized mounting bracket
Dimensions	– Dimensions of the device (H x B x T): 315 mm x 136 mm x 99 mm – Dimension incl. option tube mounting and cover: 315 mm x 136 mm x 128 mm
Weight	1415g (without mounting plate, SAM/SIM interface board, 5G module)
Display	– 7" LCD touch display, 800 x 480 pixel, 24-bit color depth, contrast: 800:1 – LED backlight with typically 850 cd/m² – Projective capacitive touch sensor – Hardened and non-reflecting glass, IK08 – Brightness sensor for adjusting screen brightness
Signalling	– LED (red, yellow, green) – Speakers (allows playback of audio files) – **Option**: Line out (3.5 mm – headphone jack)
Operating voltage	– 9 V/DC to 36 V/DC – Voltage bridging using SuperCaps – Connection to clamp 15 (ignition) for delay or wake-up
Power consumption	– 15 W typical
Computer unit	– 64 Bit ARM processor (ARMv8) – 4-core CPU, 1 neural processing unit (NPU)
Memory size	Main memory – 4 GB LPDDR4 RAM – **Option**: 2 GB or 8 GB LPDDR4 RAM Memory – 16 GB system memory (Flash eMMC) – **Option**: 32 GB or 64 GB system memory (Flash eMMC) – **Option**: 32 GB backup memory (Micro SD card) – **Option**: EEPROM memory for mounting plate

Feature	Description
Contactless card reader	– Integrated card reader for contactless smart cards according to EMV contactless and ISO 14443 A/B as well as Mifare Mini®, Mifare Classic®, Mifare Ultralight®, Mifare DESfire Light®, and Mifare DESfire® cards – PCI 6.x / 7.x – EMV level 1 (V3.1 or higher) – EMV level 2 (kernel fo acceptance of Mastercard, VISA, American Express, Discover, JCB and other cards available) Comaptible with NFC – to support smartphones and wearables for Apple Wallet, Apple Pay, Google Wallet, Google Pay, and other applications – for support of Motics NFC (migration level 2) Security elements – **Option**: 2 SAM slots (ID000 format) – **Option**: 4 SAM slots (ID000 format)
2D barcode scanner	– LED lighting enables the registration of barcodes even in case of low ambient lighting. – Reading window oriented downwards – Recognition of barcode types in accordance with ISO/IEC 15426-2: QR codes, Aztec, Data Matrix, and other formats (upon request), to support various barcode formats such as UIC barcodes, DosiPass, VDV barcodes, Motics, etiCORE, AllianceSwissPass, Samtrafiken/BoB, and others – **Option**: Barcode positioning aid for the mounting rod
Communication	– LAN / Ethernet (10/100 Mbps) (including IBIS-IP / VDV 301 or ITxPT) – **Option**: VDV300 IBIS interface – **Option**: RS 485 (half-duplex) or RS 232 – USB 2.0 (passive) – **Option**: 4G / 5G Modem mit integriertem GNSS-Modul im Format M.2 Key B, integrierte Antennen, 1 SIM-Slot – **Option**: eSIM – **Option**: WLAN module, integrated antenna – **Option**: LAN / Ethernet (100/1000 Mbps)
Security	– SecureBoot / Trusted Execution Environment – Data carrier encryption – Secure authentication incl. device-specific certificate

Feature	Description
Ambient conditions	
Temperature	– -20 °C to 70°C operating temperature (2D barcode scanner -25°C to +55°C) – -40 ºC to 70 ºC storing temperature
Humidity	95% maximum, non-condensating
Protection type	– Dust and water protected according to IP 54 – **Option**: IP 65
Certification	– EU directive 2014/53/EU (CE identification according to RED) – E1 approval (EU guideline ECE R10.06) – Fire protection (EU guideline ECE R118.03) – Train application EN 50155 – Fire protection: DIN EN 45545-1/2 – VDV-KA certification

* Subject to alterations