The AT10Ki OEM can connect to any mobile device, phone or tablet.
The reader can be used in pool mode connecting to multiple devices (you can create reader farms).
A single computer can connect to multiple readers.
Flexible install options.
Lower development and life time IT costs.
Direct connection with Software as a Service (SaaS) and enterprise back-end applications.
Gemalto Intelligent OEM Document Reader AT10Ki

**FEATURES**

> On-board dual core Arm® Cortex® A9 processor with Linux® OS runs image processing and RFID functions in reader
> Ethernet and WiFi network interfaces running the Web-API host interface
> Browser accessible management console
> Data & PII security built in by design
> Easy integration to enterprise and SaaS applications for document authentication and verification, hotel property management systems and biometrics management
> “Landing lights” & tick/cross user LEDs and new silk screen design makes document placement and reading very intuitive even for infrequent users
> Reads ID cards and barcodes placed at any rotation on the glass
> OCR data capture of the Machine Readable Zone (MRZ) & 1D/2D barcode reading from paper and mobile boarding passes
> Hoodless operation in most environments using proprietary ambient light removal algorithms – even on UV images
> Low scratch, low-iron, fully bonded glass with oleophobic coating for low maintenance & easy cleaning
> Reads and images multiple types of documents in Visible, Infra-red and Ultra-violet light using 24-bit color and true-color image matching technology to provide vibrant accurate colors and images can be saved in BMP or JPEG format
> Anti-glare technology eliminates image artifacts due to reflective laminates or OVDs
> Auto-triggering of document capture – presence of document is automatically detected
> Powered from USB, Power over Ethernet (POE) or external power supply
> USB3.1 interface supports legacy Gemalto SDK
> Full management and diagnostic interfaces
> Bluetooth® interface for future applications*
> Windows® 7, Windows® 8.1, Windows® 10, iOS, macOS, Android™ and Linux® Web-API compatible
> Internally sealed optical chamber prevent dust ingress*
> Optional document spine hold down clip and optional hood

**BENEFITS**

> Quickly and simply connect the Gemalto AT10Ki OEM to your network, tablets, phones and enterprise SaaS applications
> Many user customizable features, intuitive user LEDs and “anywhere” placement make the reader simple to use and reduce customer stress during self-service
> Complete integrated system, reader, on-board image processing, OS, device management, network protocols and security for your faster development and deployment
> Whether you deploy portable suitcases, wheeled or fixed kiosks the WiFi and POE/Ethernet connections provide installation flexibility
> Reads 1D and 2D barcodes (BCBP) from paper and mobile devices
> A unique progress bar with Tick / Cross indicators make reading a document intuitive, helping to direct the user during a read and visually show the result of the read
> More accurate document verification & face recognition due to glare/OVD suppression, high quality images and true-color image processing when used with add-on document authentication and live face recognition engines
> Optional support for biometrically enabled travel documents and driving licenses containing contactless integrated circuit chips (eIDs, eDLs and ePassports)
> Fast document processing, ease of placement and hands free RFID reading even on multiple stapled books allows operators to focus on the passenger resulting in faster passenger processing and improved detection of travelers of concern
> Create a personal service experience by accessing the closest document reader from your tablet or mobile device using pools of Gemalto AT10Ki OEM readers
> Simple phone app displays a barcode to provision a reader, either pre-deployment or by the end user
> Use of modern web interfaces and cloud/virtualized applications reduces total cost of ownership for IT systems using document readers
> No PC required for network mode – reducing costs

* Future feature
Gemalto Intelligent OEM Document Reader AT10Ki

Reading Capability
The Gemalto Intelligent OEM Document Reader AT10Ki reads the following documents:

- **ICAO compliant documents in near infrared (IR) per ICAO 9303 specification**
- **One line Driving Licenses in near infrared (IR) per ISO18013 part 2 specification**
- **1D barcodes (2 of 5 interleaved, 2 of 5 industrial, Code 128, code 39, EAN-8 and EAN-13)**
- **2D barcodes used on BCVP and other documents (PDF 417, QR Code®, DataMatrix™ and Aztec formats) from paper documents and many mobile devices**

Reads using optional RFID antenna from contactless chips like eMRTD and eID according to:

- Contactless IC reading for ePassports (LDS 1.7 & 1.8) including basic access control (BAC), passive/active authentication (PA/AA), Chip Authentication (CA), Terminal Authentication (TA)*, extended access control (EAC v1/v2)* supplementary access control (SAC) and PACE-CAM are supported. The SDK provides writing capability using APDUs
- Contactless IC reading for eDL & iDL (electronic driving licenses to ISO18013 parts 2 & 3 and ISO/CEI TR 19446) up to DG14 including basic access control (BAP v1), Password Authenticated Connection Establishment (PACE), passive/active authentication (PA/AA), Chip Authentication (CA), Terminal Authentication (TA), supplementary access control (SAC) and extended access control (EAC v1) are supported

Reader Physical Interfaces

- **USB 3.1 with USB Type-C™ connector, SuperSpeed up to 5 Gbps Gen 1 Specification Revision 1.0**
- **10/100/1000 Mbps Ethernet to IEEE® 802.3**
- **WiFi IEEE 802.11b/g/n standards up to 150Mbps with WPA/ WPA2/WEP**
- **Bluetooth® v2.1, v3.0 and v4.0 (classic/Low Energy) future enhancement for future on-board applications**
- **Optional ISO 14443 | 13.56MHz Type-A and Type-B RFID eMRTD reader. All standardized rates, up to 848 Kbps, read-out times depend on RFID tag, operating system and amount of data stored in the chip**
- **Integrated USB 2.0 Hub in USB mode – 2 ports for external peripherals connected to upstream USB3 port via the hub**
- **Integrated USB 2.0 Hub in Networked mode – 4 ports for external peripherals for future on-board applications**

Software Upgrade

- Software updates can be pushed to the reader via the Web-API over the network or locally using the Web-UI
- Reader can check in for updates with a customer hosted update server, either automatically or in when prompted via Web-API*
- All updates are digitally signed by Gemalto ensuring integrity & security

Identity Document Verification Option

Additional software provides Identity Document Verification including direct connection options with IDV and authentication back-end SaaS*

Network Interface

The Web-API enables data and management of the reader over the Ethernet/WiFi network. It provides a similar feature set to the Gemalto Document Reader High Level API:

- The Web-API uses encrypted JSON messages to configure the read sequence and retrieve data and events from the reader. The on-board SDK provides image processing, OCR decode, barcode and eID protocols.
- Device discovery shows all the readers on the network and allows selection of a specific reader
- Gemalto Messaging SDK supports the Web-API with Java 8, Android, Swift 4 (iOS), C++ and C# sample applications & libraries

Browser Management Console

Just like any network device the iSeries readers have a management console which can be accessed using a browser [our Web-UI] which provides:

- Reader management including network parameter configuration
- Manual reader provisioning
- Test and diagnostics

Device Management

The Gemalto AT10Ki OEM family provides:

- Device provisioning capability for on-site & off-site network setup including network parameters, credentials, local descriptions, etc.
- Any iSeries reader can be provisioned straight out of the box from a barcode that contains all the parameters
- Web-UI interface to manage the device, networks, certificates and keys
- Web-API interface to manage keys and certificates* and show/select available readers
- mDNS device discovery (Bonjour)

Device Security

Security has been designed into the Gemalto Intelligent Document Reader AT10Ki OEM so that you don’t have to implement it which leads to faster and cheaper PII compliance:

- Software updates are protected by digital signatures and secure server preventing unauthorized applications from being loaded
- Data is protected in flight using AES-256 with Diffie-Hellman key exchange and server authentication (customer installed shared secrets)
- WiFi protected by WPA/WPA2 protocols
- Only authorized connections can be made to the reader via proprietary protocols
- Personal data is not stored in the reader

* Future feature
Gemalto Intelligent OEM Document Reader AT10Ki

**Illumination**
The reader illuminates documents in multiple wavelengths:
> Near IR B900: 880nm, +/-5%
> White visible: 430-700nm
> Ultraviolet (UVA): 365nm

**Resolution**
> Sensor: 10 Megapixels, CMOS, RGB 24 bit color
> High resolution 700 DPI imaging

**Mechanical**
> Length: 17.1 cm (6.7”)
> Width: 14.5 cm (5.7”)
> Height: 6.5 cm (2.6”)
> Weight: 1.1 kg (2.4 lbs)
> Low scratch, low-iron glass with oleophobic coating for low maintenance & easy cleaning
> Optional Chemically Strengthened glass to improve durability

**Power**
Powered from USB port, Power over Ethernet or via universal input external power supply:
> External PSU:
  > Input voltage 100 - 240 VAC plus/minus 10%, Frequency 47 - 63 Hz
  > Detachable IEC320 AC mains power cable
> Power Interface to IEEE® 802®.3af for a Powered Device (PD) typically 36-48V. Only for networked mode operation
> From a single USB 3 (900mA) or USB 2.0 (500mA). Requires at least 1.5A using USB-C for optimum performance. Only for USB mode operation

**Service & Maintenance**
> One-year warranty
> Annual maintenance agreement available

**Regulatory**
> FCC Part 15 Class A
> CB report
> US & CA ETL Listed (pending)
> CE - RED, LVD & EMC
> EU WEEE, REACH & RoHS Directive

**Status Indicators**
The readers provide user feedback status indicators:
> Unique yellow Progress Bar
> Red Cross and Green Tick
> The readers perform a power-up self-test and indicate failure using status LEDs.

**Environment**
> Humidity: 20 to 95% (R.H. non-condensing)
> Temperature: -10º to 50º C operating; -20º to 50º C storage
> IP52 rating for dust ingress protection in the optical chamber (pending)

**USB Mode Operation**
Legacy compatibility is provided through USB mode for users who want to manage a migration to networked operation:
> Compatible USB interface with AT10K reader
> Not possible to use USB mode and Networked mode concurrently
> In USB mode the on-board processing is not used
> Uses the same API interface as other Gemalto document readers using Gemalto Document Reader SDK
> For specifications of the AT10Ki OEM USB mode please see the AT10K Technical Data Sheet and user manual

**Minimum host Specification in Networked mode**
In Networked mode Gemalto provides a thin Messaging API layer which can be installed on:
> Windows® 7, Windows® 8.1  or Windows® 10 operating systems, 32 or 64 bit
> Builds for Ubuntu and CentOS LTS, 32 & 64 bit
> iOS 11.4 and macOS for iPhone and iPads, etc
> Android™ 4.1.x for mobile phones and tablets with network connectivity
> Java JVM v8

**Status Indicators**
The readers provide user feedback status indicators:
> Unique yellow Progress Bar
> Red Cross and Green Tick
> The readers perform a power-up self-test and indicate failure using status LEDs.

---

**Subject to change without notice.**

© Gemalto 2018, 2019. All rights reserved. Gemalto, the Gemalto logo, are trademarks and service marks of Gemalto and are registered in certain countries. February 2019 - Jubemo - DT-01952 Rev C

Microsoft, Windows, Windows Vista, Visual C++, Visual C# and Visual Basic are registered trademarks of Microsoft Corporation in the United States and other countries. Java is a registered trademark of Oracle and/or its affiliates. Pentium and Intel are trademarks of Intel Corporation in the U.S. and/or other countries. Data Matrix is a trademark of Robotic Vision Systems, Inc. [RVS]. Ubuntu is a registered trademark of Canonical Ltd. Linux is a registered trademark of Linus Torvalds. Android is a trademark of Google LLC. Kensington is a registered trademark of ACCO Brands. QR Code is a registered trademark of DENSO WAVE INCORPORATED. MIFARE is a trademark of NXP Semiconductors. macOS, Bonjour, iPhone & iPad are trademarks of Apple Inc., registered in the U.S. and other countries. IEEE and 802 are registered trademarks owned by the Institute of Electrical and Electronics Engineers, Inc. Arm and Cortex are registered trademarks of Arm Limited (or its subsidiaries) in the US and/or elsewhere. The Bluetooth® word mark is a trademark owned by the Bluetooth SIG, Inc. and any use of such marks by Gemalto is under license USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum.