AKB500 Keyboard
With integrated MSR and OCR functionality

Space-saving multi-function keyboards with bi-directional inbound reading

The AKB500 family of keyboards integrate OCR and MSR functionality to deliver a solid, multi-function device with a compact footprint ideal for airline passenger check-in and card reading, and retail/POS and security environments for quickly establishing customer identity.

This latest version combines the robust ATB42x keyboard with the OCR310e – our new OCR engine that is more than 50% faster than its predecessors. One of the key features of the AKB500 family is the placement of the read camera at the centre of the read slot, allowing for bi-directional reading within the footprint of the device and saving valuable desk space.

The keyboard can be adapted to add a new host or to support non-standard cards, such as loyalty or frequent flyer and special dedicated formats. To ensure flexibility for the future, new firmware to add and modify features can be downloaded to the unit.

The compact AKB500 Keyboard with OCR and MSR functionality

Keyboard Features

- 104 key US or 105 key European standard versions
- Custom keyboard layouts are available
- Cherry mechanical key switches rated at 50 million operations
- Rugged design with steel chassis
- Height adjustable.

Host System Interface

- USB and RS232 connection for thin client solutions
- Single USB connection to host; no external PSU
- Protocol support for most popular systems
- Virtual serial RS-232 or keyboard wedge modes
- Field upgradeable firmware
- Visual and audible good/bad read indication
- Custom data parsing.

Auxiliary RS-232 Port

- Auxiliary RS-232C serial interface for decoded bar code scanner.

OCR Reader

- Reads: machine-readable passports, visas and travel documents conforming to ICAO recommendation 9303; tickets; ID, resident alien and Green cards.

Magnetic Swipe Reader

- Accepts ISO 1-, 2- & 3-track credit cards to ISO7811/2-5
- Reads in both directions at a wide range of swipe speeds
- Long-life magnetic head & stainless steel document guide.

Pointing Device (Optional)

- Strong, tamper resistant design and easy to maintain.

USB Hub Ports (Optional)

- USB hub ports for connection of USB powered mice, fingerprint scanner etc
- Options to add 1 or 2 hub ports.

Access
Products

Access IS
www.access-is.com

Ordering Information

The AKB500 keyboard is available with a number of functionality options commonly required by airports and airlines.

Options include:

- An integrated mouse-compatible pointing device
- One or two USB hub ports for connection of USB powered mice, fingerprint scanner etc

Product	Colour	Country	Interface			Options			Hubs
	White / Grey		Serial Port	USB HID	USB Keyboard Wedge	OCR	3 Track MSR	Pointer	USB Hub Ports
AKB500	W / G	US, UK, ES, DK, DE, NO, FR, CY (Cyrillic), AR (Arabic), SE/FI (Sweden/Finland)	S	U	K	O	M	P	0
									1
									2

Example: AKB500-G-US-S-OMP-1

Colour Options

The AKB500 series keyboard is available in either grey or white.

Specifications

General

Colour: Dark Grey / White

Dimension: 439W x 197D x 50H mm

Weight: 1.75 kg

Cable length: 2.0 m

Power requirement: +5 VDC <350 mA

Interfaces (Data)

Host interface: USB 2.0; full-speed, Keyboard Emulation, RS232 Serial

Ports

USB ports (optional): Bus powered USB 2.0 hub (Full Speed) ports (max. load 100 mA per port)

Auxiliary RS-232 port interface: Bidirectional RS-232 by 9-way D-type

OCR reading

Standard OCR fonts: OCR-B

Machine readable passports (MRP) : 2 lines of 44 characters

Machine readable visas (MRV) : 2 lines of 44 characters, 2 lines of 36 characters

Travel documents: 2 lines of 36 characters, 3 lines of 30 characters

MSR reading

Processing time: Manual swipe processing/read less than 1 second

Card type: magnetic cards per ISO7810, ISO7811, AAMVA and custom data

Read capability: magnetic stripe 1-, 2- or 3-track of low or high coercivity (300-4000 Oe)

Swipe speed: 5 to 55 inches/second

Magnetic head life: >500,000 swipes

Read error rate: < 0.5%

Environmental

Operating temperature: 0°C to 50°C

Storage temperature: -20°C to 60°C

Approvals (P = Pending)

Safety: EN 60950-1

EMC: FCC 47CFR Part 15/Sub-part B/ Class A; EN 55022 Class B; EN 55024

Air IT: EASE™

Amadeus: ACUS™

ARINC iMuse & vMuse®

Edge-airport: Airport Manager Cupp-T™ (P)

RESA CREWS® (P)

SABRE EGR®

SITA CUTE® AirportConnect

TravelSky 'Angel Cue'®

Ultra CUSE®