ATB426 and ATB427
USB Keyboard With Serial OCR/MSR Interface

Access' space-saving keyboards integrate MSR and OCR functionality designed for thin client applications.

Description

The ATB426 and ATB427 keyboard families integrate OCR and MSR functionality and are designed for airline passenger check-in and boarding gate document and card reading.

The keyboard and mouse connect via USB, while the OCR/MSR and LSR data is transmitted via a separate RS-232 serial port on the keyboard. The USB keyboard and mouse operate as standard USB devices and no special driver is required to operate this device on the PC or thin client. The keyboards can be adapted to add a new host or support non-standard cards such as loyalty or frequent flyer and special dedicated formats. To ensure in-service flexibility, new firmware to add and modify features can be down-loaded to the unit.

The keyboards are fitted with an integrated 4 track magnetic swipe reader (MSR) and dual illumination OCR reader. The MSR performs bidirectional reading of ticket and boarding pass coupons and ISO encoded credit cards. The keyboard footprint is 20% smaller than competing products and as the document exit is inboard of the keyboard, the unit can be operated where space is limited. The ergonomically designed document channel is fitted with a smooth wear-resistant stainless steel guide and achieves reliable reading at fast and slow swipe speeds.

Keyboard Features

- 104 key US or 105 key European standard versions
- Custom key layouts optional
- Cherry mechanical key switches rated at 50M operations
- Compact and rugged design with steel chassis
- Height adjustable

ATB42x integrated check-in and boarding gate keyboard

Host System Interface

- USB connection for keyboard and mouse; no external PSU
- RS-232 output for OCR/MSR and LSR data
- Emulations for most popular systems
- FLASH upgradeable software
- Visual & audible good and bad read indication

Auxiliary RS-232 Port

- Auxiliary RS-232C serial interface for external OCR reader or decoded bar code scanner

OCR Reader with Dual Illumination

- Reads Machine Readable Passports, visas, travel documents conforming to ICAO recommendation 9303,TAT and ATB tickets, resident alien and Green Cards

Magnetic Swipe Reader

- Accepts ISO 1, 2 & 3 track credit cards to ISO7811/2-5
- IATA ATB2 722C format T1, T2, T3 & T4
- Reads in both directions with wide range of swipe speeds
- Long life magnetic head & stainless steel document guide

Pointing Device (Optional)

- Strong, tamper resistant design and easy to maintain
- Suitable for left and right hand users

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Connections

OCR/MSR
LSR output

Input for LSR/OCR
external device

Product Selector

Part Number		Options			
Pearl White Colour	Dark Grey Colour	4-Track MSR	Serial Aux Port*	Integrated OCR	Pointing Device
ATB426M	ATB427M	Yes	Yes		
ATB426MP	ATB427MP	Yes	Yes		Yes
ATB426P	ATB427P		Yes		Yes
ATB426O	ATB427O		Yes	Yes	
ATB426OP	ATB427OP		Yes	Yes	Yes
ATB426MDO	ATB427MDO	Yes	Yes	Yes	
ATB426MDOP	ATB427MDOP	Yes	Yes	Yes	Yes

* The serial auxiliary port can be configured to connect to a decoded bar code scanner or an auxiliary passport reader

ATB426 and 427 Integrated Keyboards

Specifications

General

Colour: See table

Dimension: 439W x 197D x 50H mm

Weight: 1.75 kg

Cable length: 2.5 m

Power requirement: +5 VDC <350 mA

Interfaces

Keyboard interface & pointing device (optional): USB1.1

Integrated OCR/MSR and LSR: 9-way D-type RS-232 port output of keyboard

Auxiliary RS232 port interface: Bidirectional RS232 by 9-way D-type

Decoded bar code interface: Connects neatly through Aux Serial Port with 5V power stealer (or PSU option)

OCR reading (optional)

Standard OCR fonts: OCR-B & E13B

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

OCR ticket data: In accordance with IATA Recommended Practice 1720a, inc. ATB-1 type 407-E, 1403M, OCRB, OCRA and IATA 2 of 5 bar code data

Environmental

Operating temperature: 0°C to 50°C

Storage temperature: -20°C to 60°C

MSR reading (optional)

Compliance: IATA ATB2 722C format T1,T2,T3 & T4. AEA2002/PECTAB formatting

Document types: ATB tickets 8" and 7 3/8", ATB wallet and ATB2 boarding pass (with or without stubs) face up

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

Magnetic head life: 250K reads

Approvals

Safety: UL 1950 /IEC950

RF/EMI: EN 55022 Class B, FCC Part 15, Subpart B, class A, BSMI EMC Class B

Ver: 1.0 December 2010

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