BGR130 2D BCBP Boarding Gate Reader with Integrated MSR

Innovative boarding gate solution for 2D BCBP with manual MSR for ATB2 reading and option for OCR passport and ePassport reading.

Description

The BGR130 boarding gate reader combines a 2D barcode imager with a manual magnetic swipe reader (MSR), providing a robust and cost-effective gate reading solution where occasional ATB2 and frequent flyer card (FQTV) reading is required.

The BGR130 is simple and intuitive to use. The high-speed omnidirectional imager reads travel documents face up in any orientation. It automatically detects machine readable data and almost instantly, a 2-line user display, bright LED indicators and a programmable audio beep provides user-feedback.

The reader is optimised for demanding boarding environments. The integrated 4-track MSR has no moving parts, minimising service costs and maximising reliability. Two option ports at the rear of the unit are designed to connect devices such as a receipt printer or keypad to facilitate seat assignment at the boarding gate.

An option exists to integrate OCR swipe reading and RFID reading functionality capable of reading ICAO 9303 compliant passports and ISO14443 compliant ePassports.

BGR130 reading ATB2 document

BGR130 OCR option being used to read passport

Options

- Integrated RFID ePassport reader
- Integrated OCR reader for ICAO 9303 documents
- Addition of keypad for seat assignment at the boarding gate
- Addition of receipt printer (see Access part RP9000)

BGR Features

- Fast, omnidirectional 1D and 2D barcode reader
- Bright VFD 2 x 16 character display
- Reads on presentation of a barcode face up
- Reads linear and PDF417, Aztec Data Matrix, QR IATA recommended 2D symbologies
- Large document throat easily accepts A4 documents
- Reads 2D barcode images on PDA and smartphone displays
- Single RS-232 cable connection to host
- Green and red indicators and audio beeper

Mag Swipe Features

- Reads track 1, 2 & 3 of magnetic cards complying to ISO7811/2-5
- Bidirectional reading of an ATB2 coupon
- 4 track manual swipe ATB2 reader

Access IS
Interfacing Solutions

Large document throat accept A4 home printed documents

Optional numeric keypad allows for seat changes at the boarding gate

Optional RP9000 receipt printer

BGR130 2D BCBP BGR, MSR and Optional OCR and RFID Reader

Specifications

Passenger/agent displays

Display: Bright VFD 2 x 16 characters

Visible/audible: Green (good read) and red (bad read) indicator beacons and audio beeper. Programmable capability

Barcode reader

Compliance: AEA2008

1D symbologies: Code 128, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39

2D symbologies: IATA resolution 792, PDF417, Aztec, Datamatrix and QR codes. Will also read from PDA and smart phone displays

Performance: <1 second read capability

Construction: Compact and durable ABS enclosure with no moving parts

MSR swipe reader

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

Construction: Integrated within durable ABS enclosure

OCR swipe reader (optional)

General: Reads machine readable travel documents (MRTDs) to ICAO 9303 standard

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: 3 lines of 36 characters, 3 lines of 30 characters

RFID reader (optional)

Interoperability: Passport booklets conforming to the global standards for interoperability by the ICAO9303 2005 (International Civil Aviation Organisation)

Frequency range: 13.56 MHz

Reading technique: ISO 14443-2, 3, 4

Clock frequencies: 3.58 MHz and 4.92 MHz supported

Reading range: up to 3 cm

Chip technology: ISO 14443-A/B

Interfaces

Host interface: RS-232C Baud rates 9600 and 19200 via RJ48 10 way connector

Option interfaces: one RJ45 8-way port for the addition of a receipt printer and one RJ11 6-way port for the connection of a keypad

Dimensions (overall)

218L x 210W x 150H mm

Power supply

12 VDC <1A (AC universal power adapter supplied)

Environmental

Temperature: Operating 0°C to +50°C; storage 0°C to +60°C

Humidity: 0 to 95%, non-condensing

Approvals: FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1

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