



Applications

ITSO: the reader is used by ticket inspectors to check the validity of travel products, entitlements, vouchers and stored travel rights. It can also be used to display the travel history of a card and to validate (entry or exit) or clip IPE's (*ISAM required and dependant of business rules).

Education: the reader is used to collect pupil attendance information. It is also used to verify the card-holder's age.

Electronic purse: the reader is used to check the balance of the card purse and to display the transaction history.

GIS can supply either full customisation and build or a development platform for in-house development. Please contact GIS for further details.



Technical Specification

- 32-bit ARM based single chip microcontroller with variable clock speed
- 512Kbytes internal Flash memory (program memory) / 128kbytes internal RAM
- 1MB of non removable Flash memory
- 2GB of removable Flash memory using Transflash technology (optionally up to 32GB)
- Real Time Clock with independent Lithium coin cell
- 128 x 64 DOT matrix graphic LCD (8 lines of 20 characters) with LED backlighting
- Membrane keyboard with 4 (H440) or 12 keys (H450)
- High visibility LED (green, amber and red)
- Operates from single Li+ rechargeable cell
- Ergonomic case design with optional wrist-strap
- Host interface cradle with either USB 2.0 (Full speed) or RS232 (*optional) connectivity
- Bluetooth interface with SPP for wireless expandability (*optional)
- Smartcard interface compatible with ISO14443-A/B, FeliCa® and NFC
- Interface protocol: Mifare® Classic / Ultralight / T=CL
- AES, 3KDES and 3DES encryption supported
- Reading range up to 3cm
- SAM: 2 x ISO7816 ID000 - 3V or 5V

General Information

- 5V mains adapter/charger cradle (supplied)
- Weight: 140gm
- Dimensions: 150 x 68 x 40(max) mm
- Enclosure is designed to comply with IP53 (IEC529).
- Operating Environment: -20°C to +55°C ambient, 10 to 90% relative humidity (non-condensing)
- Charging environment: -0°C to +40°C ambient, 10 to 90% relative humidity (non-condensing)
- Transit and Storage: -20°C to +60°C ambient, 5 to 95% relative humidity (non-condensing)

Standards and Approvals

- CE: EN61000-6-1:2001, EN61000-6-3:2001, EN60950:2000, EN300 330-1 V1.3.1, EN300 330-2 V1.1.1, EN301 489-3

MIFARE is a trademark of NXP Semiconductors
FeliCa is the contactless IC card technology developed by Sony Corporation
Specifications are subject to change without notice - Aug 2011



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