custom
IT31

Data Collection Terminal

Overview - Wide Capabilities

The IT31 terminal is part of the CUSTOM IT family of products which is characterised by ground-breaking functionality and a simple-to-integrate fully managed environment.

The core of the IT series software is a SQLite database and a powerful application language that is isolated from the Linux kernel and hardware.

This configuration provides continued compatibility with application software and the operating system, while allowing systems to evolve and benefit from future developments in processors and the Linux operating system.

Features

- Graphical backlit display (160 x 100 pixel) with variable size fonts
- ARM9 177 MHz low power consumption processor
- Durable membrane keyboard with numeric keypad, navigation and function keys featuring audible feedback
- 64 MB 32bit SDRAM
- 64 MB internal on-board flash memory
- USB and serial ports
- Ethernet connectivity with HTTPS capability for secure communications
- High-quality sound with internal microphone and speaker for audio messaging
- Wide range of card reader types supported, featuring plug and play configuration
- Power options include 12 V DC jack, internal mains PSU and IEEE802.3af PoE
- Internal lithium-polymer battery option to run terminal during power failure

Sales representative in Poland:
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ALAN Systems offers software that works with IT31 teminal.
product site: www.atms-watch.com

ALAN SYSTEMS
BUSINESS INTELLIGENCE SOFTWARE

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grosvenor technology

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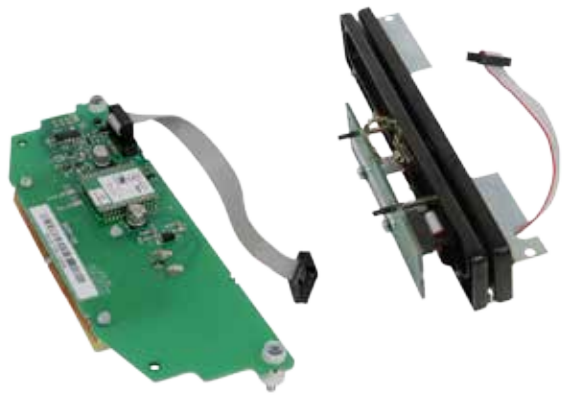

Our quality build employs a durable and eco-friendly polycarbonate enclosure on the outside and a robust Linux operating system on the inside, ensuring durability in real-world commercial environments.

The flexible modular hardware, with intelligent plug and play design, offers an extensive range of card readers, biometrics and power supply options.

Grosvenor Technology's CUSTOM Exchange software provides an integrated development environment and includes facilities for programming and deploying code.

Designed to provide powerful functionality and superior energy efficiency, the CUSTOM IT31 delivers amazing performance at every level.

Installation and Configuration

Designed for fast and easy installation, CUSTOM IT terminals use a back panel with pre-formed cable entries to assist a wide variety of installation scenarios. The IT back panel includes a unique click-in system that secures different cabling methods without the need to remove or re-wire preformed cable ends.

Front panel options include a wide variety of easy-fit reader modules for proximity, swipe and biometric technologies. Here again the ease of installation and system maintenance has been fundamental to the way in which the IT31 has been designed.

Precision Diagnostics

Card readers, power supplies and system expansion modules all feature embedded intelligence to provide remote monitoring and diagnostics for parameters such as current consumption, voltage, temperature and version information for every aspect of the terminal. The ability to maintain software after a terminal has been deployed is of primary importance and has been a fundamental design principle.

Everything from a complete operating system flash image update to a change in application program parameters can be safely downloaded over the Internet either automatically or manually, or uploaded locally from a USB memory stick. Modularity has been taken to a new level including automatic plug and play configuration.

Software

Integrating CUSTOM IT terminals with your system is easy thanks to a managed software environment and CUSTOM Exchange server software. Built on the robust Linux operating system, we have created a framework for CUSTOM IT terminals that enables integrators to write or customise applications for the business logic and user interface with all the tricky details being taken care of within the managed environment. Applications that run on the terminals are written in Python, a scripting language which has the capability to access features such as the internal SQLite database but with an abstraction layer providing independence from the kernel and hardware allowing painless kernel upgrade or migration to other CUSTOM IT products.

An integrated development environment based on Eclipse provides a coding development platform for IT terminals. It includes facilities for programming, deploying code to a terminal, debugging and useful utilities for viewing a terminal status including the SQLite database.

Example applications provide a quick-start for the most common requirements from simple clocking to multi-media messaging. It means that for many situations there is little coding required so integrators can hit the ground running.

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