

gotive® H42



Communicator for Mobile Enterprise

Scale 1:1

Communicator for Mobile Enterprise

Built on leading edge technology and setting new benchmarks

- Powerful **Handheld Communicator**
- **Unrivalled Choice of built-in Options** in a single unit
- Stand-out **Appearance and Ergonomy**
- **Rugged** construction (IP54)
- Exceptionally **Large Display** 6.2", 640 x 240 pixels
- **Superior Power Management** & operating time
- **Extensive Memory** 384 MB (optionally extendable up to 1.1 GB), additional memory expansion possible via CF/SD/SIM cards
- **High-Performance Processor** Intel® XScale® PXA 270 - 520 MHz
- Standard **Windows® CE** operating system

Gotive H42 is a technology-packed yet easy-to-operate rugged handheld Communicator, designed for use in a wide range of mobile enterprise applications. With its extensive range of embedded options in a single unit, rugged ergonomic design and an outstanding system performance, it is an ideal tool for the mobile users who need to collect, process and communicate information at the point of activity. Gotive H42 extends enterprise computing within as well as far beyond company grounds, and brings high performance and efficiency of operation to the user, providing benefits for both the company and the customer.

to bring efficiency and secure investment into enterprise solutions

- Transportation & Logistics
- Warehousing & Distribution
- Field Services & Maintenance
- Courier & Postal Services
- Public Safety & Administration
- Utilities

Communicate



Gotive H42 combines in a single unit a desired selection from a wide choice of wireless communication options to enable instant data exchange and to secure data accuracy - voice/text communication over GSM network; anywhere GPRS for data access and exchange outside of the company; WLAN 802.11b for local area networks; as well as Bluetooth and IrDA for communication with peripherals and other devices in the personal area.

This unique communication versatility in a single handheld unit displaces a number of individual hardware to carry around, enhances productivity, and develops customer satisfaction and loyalty by providing up-to-date information and flexible service.

Capture

Integrated automatic data capture options help the mobile user to collect even complex information with ease and accuracy, while minimizing the risk of input error. Variety of available technologies - bar code scanner, smart card read/write module, picture taking technology, and capture of digital signature or fingerprint - guarantees a solution for any project's needs. Additionally, the large screen of the communicator allows manual entering and modification of data by fingers anytime.



Navigate



GPS module built into the Gotive H42 communicator or into its docking station localises and tracks vehicle or the mobile worker in the field, navigates the driver, identifies the points of activity, enables to secure online proof of delivery (POD, supported by on-screen signature capture), and enables the exploitation of the location based services.

Compute

Unrivalled choice of built-in options

Gotive H42 offers the potential of delivering any of factually hundreds of possible combinations of embedded technologies in a single product, following Gotive concept of supplying a versatile, custom-configurable product, which exactly matches the solution and user requirements.

Exceptionally large display

Large easy-to-read HVGA colour display is easy readable and finger operable and provides abundance of space for displaying large quantity of data, big icon controls, navigation map or full QWERTY virtual keyboard.

Main Features



+ feature will be launched later in 2005

Superior power management

Dual battery system, power saving processor and sophisticated power management (part of the Gotive H42 SDK) along with multitude of docking and charging accessories ensure maximum operating time, fast charging, as well as reliable back-up of data and applications anywhere and in any situation.

Many tools to develop applications

Gotive H42 SDK, more than 500 API functions fully compatible with Microsoft SDK for WIN CE, and third party GSM/GPRS and GPS SDKs give developers tools to easily build applications and implement them into corporate IT solutions. Application development over Microsoft Windows CE operating system as an industry standard provides proof of future continuity, support and compatibility.

Extensive memory capacity

Gotive H42 offers an outstanding capacity of 384 MB on-board memory (optionally extendable up to 1.1 GB), additional memory expansion possible via CF/SD/SIM cards. Additional memory extension is possible via high-speed Secure Digital (SD) or Compact Flash memory cards.

Full-featured wired connectivity

Comprehensive set of Direct Plugs and other accessories for H42 maximises the wired connectivity with external devices indoor and on the go. Choice of Audio, RS232, as well as unique USB-A Direct Plug options enables to read and transfer data at any point of activity. The same communication options with additional USB-B are available via the docking stations.

	GSM/GPRS	WLAN	Bluetooth	GPS	BCR	SIM/SD slot	CF Card Type II slot	Smart Card Reader
GSM/GPRS	•	•	•	•	•	•	•	•
WLAN	•	•	•	•	•	•	•	•
Bluetooth	•	•	•	•	•	•	•	•
GPS	•	•	•	•	•	•	•	•
BCR	•	•	•	•	•	•	•	•
SIM/SD slot	•	•	•	•	•	•	•	•
CF Card Type II slot	•	•	•	•	•	•	•	•
Smart Card Reader	•	•	•	•	•	•	•	•

Gotive H42 embedded options combination scheme

Technical Specification

Physical Characteristics	
Dimensions	230 x 94 x 34 mm (9.05 x 3.70 x 1.34 in)
Weight	from 580 g incl. Battery Pack (depends on HW configuration) (20.5 oz)
Environment Sealing	IP54
Drop Specification	1,2 m (4ft.)
Storage Temperature	-30 to 60°C
Operating Temperature	-10 to 60°C
Relative Humidity	5% to 95% non-condensing
Case Colour	Traffic Red, Blue Sky, Industrial Grey or Custom Specified

Key Hardware	
CPU	Intel® Bulverde PXA 270 - 520 MHz
Memory	up to 1 GB non-volatile Flash memory (up to 960 MB user accessible), 128 MB RAM
Display & Touch screen	6,2" HVGA 640 x 240 pixels (153 x 58 mm effective area), 65 536 Colours, STN or TFT Integrated Touchscreen, Dynamic Landscape/Portrait Operation Switch, CFL backlight
Keyboard	Soft (on-screen) finger friendly Keyboard, freely resizable, freely programmable
LED indicators	System status, GSM/GPRS status, GPS status
Buttons	Free Programmable Action Side and Triangular Buttons, Suspend, Reset
Sound	18 bit sound, 1 Speaker, 1 Microphone
Power	internal removable/recharg. 4800 mAh Li-Ion Battery Pack, user swappable - 17.8 Wh nonremovable - 750 mAh LiPol recharg. Backup Battery - 2.8 Wh
	external variety of charging accessories - see respective datasheets
Memory Expansion	SD Card, 4 bit, up to 4 MB/s read/write, user accessible
Memory/Module Expansion	CF Card Type II (service accessible)



Easily exchangeable and rechargeable Battery Pack for virtually unlimited operating time

Communication	
Wireless WAN	optional, GSM/GPRS Module Tri Band 900/1800/1900 MHz, GPRS Class 10, Internal Antenna, 1x SIM Card holder, 1x SAM (user access, not for dual use), Connector for Ext. Antenna
Wireless LAN	optional, 802.11b (11 Mbps) via CF Card Type II slot, internal antenna
Wireless PAN	optional, Bluetooth embedded module or via CF Card Type II slot, Class 2, Internal Antenna
USB	Host/Client via USB Host Plug or Docking Stations

Data Capture	
Bar Code Reader	optional, integrated high performance 1D Laser Scanner or 1D/2D CMOS Imager Scanner*
Smart Card Reader	optional, compliant to ISO 7816-1,2,3,4; T=0 and T=1 protocols, 3V and 5V selectable
Fingerprint Reader	optional*
Signature Capture	on screen signature capabilities

Navigation	
Global Positioning System (GPS)	optional, 16 channel NMEA, SBAS support, Internal Antenna, Connector for External Antenna

Key Software	
Operating System	Windows® CE 5.0 (BSP on request for qualified projects)
Development Environment	Gotive H42 SDK for Visual Studio .NET (Visual Basic, C#) and Embedded Visual C++
SDK	API functions available for: GSM/GPRS (GSMNow!) - support for voice, data, sms GPS (optional MAPNow!) - support for localisation, navigation BCR LCD, Freely programmable Action Keys
Terminal Emulator	Windows Terminal Services, optional 3rd party software
Gotive Applications	Large Finger Operable QWERTY Keyboard, freely resizable, freely programmable Backup Manager
Microsoft® Applications	Internet Explorer 6.0, Inbox, Wordpad
Browser Plug-ins	Macromedia®Flash® Plug-in enabled Microsoft Windows Media Player Java Support via 3rd party software
Software Update	via SD Card or USB
PC Connectivity	Microsoft Active Sync 3.7



Variety of charging and communication options - Multi Charging Stations, Docking Stations, DirectPlugs and SmartCaps

Accessories	
Power	internal Battery Pack - Li-Ion 4800 mAh Battery Pack Charging Station (10 charging positions)
	external Travel Charger Plug incl. TC Power Supply Adapter or TC CL Adapter 12V/24V Docking Station Simple Docking Station Multi Charging Station (4 or 10 charging positions)
Data Connectivity	Direct Plugs USB Plug (Host) incl. USB cable RS-232 Plug incl. RS-232 cable Audio Plug
	via DS, SDS USB, RS-232, Vehicle communication (10 Wires: Power, Ignition, Microphone, Speaker, External Output (Mute), Ground, Can Bus) - via variety of Docking Stations
Ergonomics & Operability	Pistol Grip Carrying Case Basic - Functional Stylus Handstrap

for the complete list of the Accessories see respective datasheets

*to be launched later in 2005



For the frequent scanning, Pistol Grip provides more ergonomics and safe handling of the Communicator.



Multi Charging Stations add organisational value to Gotive charging solutions

Business Partner:

For more information contact sales@gotive.com or visit www.gotive.com

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