

technoman™

HANDHELD COMPUTER MODEL: HHC - 80XX SERIES



The new **ClanCor™ technoman™** handheld computer HHC - 80XX is light weight, rugged and ergonomically designed with

- Thermal Printer
- TFT Touch Screen Display
- QWERTY Keypad
- Optical Mouse
- Bluetooth
- GPRS / GSM
- IEEE 802.11 Wi-Fi
- IrDA
- RFID - LF, HF and UHF
- Magnetic Card Reader
- Contact Smart Card
- Biometric Fingerprint Scanner
- 1D & 2D Barcode Reader
- GPS
- Voice Recording & Playback

Utilizing world class technology design, ClanCor develops products to work in a wide range of rugged outdoor and industrial mobile computing applications.

 **ClanCor™**

technoman™ HHC - 80XX PART DIAGRAM



COMMUNICATION MODULES

Wireless

- Tri Band GSM for wide Coverage Global Access with GPRS (Class 10) Class B with TCP/IP protocol
- Integrated Bluetooth 2.1/2.0/1.2/1.1 module, Bluetooth 2.0 + EDR Profiles: SPP (Other profiles upon request) FCC, ICS, CE approved
- IEEE 802.11 b/g 2.4Ghz Wi-Fi with speed 11MB/54MB per second. FCC approved.

Wireline

- USB 2.0 High Speed Host & Device
- 10/100 Fast Ethernet Port
- RS 232 Serial Port (debug support)



DATA CAPTURING MODULES

BAR CODE Reader

- **1D scanning** in standard range, long range and auto range compliance with Code 39, Full ASCII Code 39, Code 32, Code 128, Code 93, Code 11, Codabar / NW7, All UPC / EAN / JAN code (EAN-13, EAN-8, UPC-A, UPC-E, EAN-128), Interleave 2 of 5, STD 2 of 5, Industrial 2 of 5, matrix 2 of 5, Chinese Postage Code, IATA, BC-412. MSI / PLESSY, Italian Pharmacy Code.
- **2D area imager** (Upon request)

GPS Application

- 210 PRN channels, with 66 search channels and 22 simultaneous tracking channels
- Super sensitivity -165dBm tracking Superior anti-jamming design, AGPS ready solution
- TTF (Time to First Fix) with Cold start <35s; Warm start <35s; Hot start <1s

Biometric Fingerprint

- CMOS Active Capacitive Fingerprint sensor conforms to FIPS 201 Compliance protected with Steel Coat and ability to withstand everyday wear and tear, rated to >4 million touches
- Large image capture area of 256 x 360 pixels (12.8 x 18.0 mm)
- High image resolution of 508 dpi with grayscale depth of 8-bit
- Image output format compatible with ANSI 381, ISO 19794-4
- Minutiae format compatible with UPEK formats/ANSI 378/ISO 19794-2 minutiae support



PLATFORM

- 32BIT, ARM9 CPU @ 200MHz Microprocessor
- 256MB SLC NAND Flash
- 64MB SDRAM (Expandable to 128MB)



OS & PROGRAMMING ENVIRONMENT

- Linux 2.6.35
- Root File System with Qt Libraries
- Software Development Kit for Linux with Eclipse based IDE, Qt Libraries & Clancor Hardware APIs



PRINTING DEVICE

- 2" Thermal Printer
- Speed up to 55mm/Sec
- Gray scale photo/image printing
- 1D Barcode Printing



USER INTERFACE

Color TFT display - Touch Screen

- 3.5" (8.54Cms) QVGA 320 x 240 resolutions with 16Bpp Transmissive, Landscape mode, TFT
- Sunlight readable (for outdoor use) adjustable LED backlight
- 4Wire Resistive Touch Screen
Passive stylus or finger operation
Signature Capture

Keypad

- FULL QWERTY keypad with 46keys Alpha-Numeric facility

Optical Mouse (OFN)

- High speed motion detection Optical Finger Navigator with left Click

Audio

- Hi-Fidelity Stereo Codec
- Internal 90db Loud Speaker, MIC & 80db Beeper
- Separate 3.5mm Jack for Headphone & MIC

Camera

- 1.3MegaPixel inbuilt Camera with Optional Flash Light

Contact Smart Card

- EMV 2000 Level 1 Certified chipset Conforms to EN 60950/IEC 60950
- Supports ISO-7816 Class A, B and C.
- Read and Write support to all microprocessor cards with T=0 or T=1 protocol to address a wide range of application across Government, Enterprise and Financial sectors

Contactless RFID

- Low Frequency LF: 125 KHz
TAG Support: EM4x0x, EM4x50, Hitag 1 & 2, ISO HDX & FDX-B Compliance with ISO11784/85 with Read/Write range of 7Cms
- High Frequency HF: 13.56 MHz
TAG Support: ISO14443A/B Mifare with Read/Write range of 5Cms
ISO15693 Philips, Icode, TI Tagit with Read/Write range of 8Cms
- Ultra High Frequency UHF: 860MHz to 960MHz
TAG Support: EPC Class 1 Gen2 with ISO 18000-6C
Read/Write range of 1 to 2 Meters (depends on Antenna & Card type)



EXPANSION SLOT

- One SD/MMC slot supports up to 8GB memory
- One Micro SD slot supports up to 8GB memory
- USB 2.0 High Speed Host (TYPE A)



SECURED MEMORY

- SAM Card
Compliance with ISO 7816 Parts 1,2,3,4
High baud rate switchable from 9600 to 14,400, 28,800, 57,600, 115,200 and 223,200 bps
Mutual authentication with session key generation
DES / Triple DES capability



POWER MANAGEMENT

- 9.0V/3000mA external adaptor with standard DC plug
- Lithium-Ion Rechargeable 7.4V@2800mA battery with internal protection circuit
Internal fast charging circuit with 4.5hrs maximum charging time
Backup time up to 8hrs under normal operation with printing up to 50meters
- Peak Operating current consumption of 330mA
Idle mode current consumption of 120mA
Standby mode current consumption of 60mA



PHYSICAL CHARACTERISTICS

- Weight less than 570gms (with Battery)
- Cabin Dimension (LxWxH) 230mm x 90mm x 43mm



ENVIRONMENT

- Operating Temperature between -20° and 50° Centigrade
- Storage Temperature between -30° and 75° Centigrade
- Battery Charging Temperature between 0° and 40° Centigrade
- Humidity between 5% and 95% non-condensing



MODEL VARIANTS

Techonoman HHC-80XX Series represents the ultimate expression of State-of-the-art Handheld Computer as per specification given. The range 'XX' subsequently expanded with the optional modules integrated as per the requirement.

YOU WANT SOME?

Clancor proves that exceptionally good things come in small size. It's Technoman HHC - 80XX handheld computer is compact in size (weighs just over 550gms) coupled with a raft of features makes it perfect for the mobile work force.

Every industry have different requirements but Clancor's HHC-80XX Handheld computer unbelievably satisfy you in all & provides perfect business solution in handheld - POS arena.

You wanted it, so we've given it to you. Clancor just feels right. It's bright, high-resolution colour TFT display is angled towards the user. It is embedded Linux OS based and integrates with loads of advanced data capture and communication functions, so you're never out of touch - thats here too.



BUSINESS APPLICATION AREAS



E-Governance

- NREGS- Mahatma Gandhi National Rural Employment Guarantee Act
- Public Distribution System
- Rural Health Insurance
- Agriculture Product Marketing
- Rural Milk Procurement
- Community Information & SHG Initiatives
- Rural patient monitoring
- Population Census online



Financial Inclusion

- Rural Banking Initiatives
- Non-Governmental Organizations (NGOs)
- Micro Finance Institutions (MFIs)
- Civil Society Organizations (CSOs)
- Mortgage & Loan repayments
- Financial advisory services
- Insurance-Medical
- Postal Saving



Health Care

- Medication administration
- Patient identification
- Laboratory sample labeling
- Supply inventory management
- Security/ visitor access control
- Diagnosis information
- Monitoring and location of medical devices
- Management of discharge procedures



Retail

- Store inventory & checking \
- Order booking & distribution
- Merchandise planning
- Price and promotion management
- Supply chain Management
- Asset tracking and inspection
- Real time demand visibility
- Queue busting



Transport & Logistics

- Vehicle loading and order management
- Despatch & Delivery data
- Yard management
- Identity verification
- GPS vehicle tracking
- Fleet management
- Route management
- Mobile inventory



Government

- UID- Unique Identification
- Personal identity and verification (PIV)
- Electronic manifest creation
- Building access control
- Work permit and visa management and validation
- Fire, police and health inspections
- Permit management
- Defense & Border security



ClanCor Technovates India Pvt. Ltd

10/1A, MTP Road, G.N.Mills Post, Coimbatore - 641 029, India.

Email: info@clancor.com, Website: www.clancor.com Tel: +91-422-2647261, 6453365, Fax: +91-422-2645173

ClanCor and technoman are registered trademarks and property of ClanCor Technovates India Pvt. Ltd., Images shown here may vary from the actuals. Features or Specification are subject to change without notice.