

e-CliniQ™

Highly Efficient Vital Signs Monitoring

Aerotel's e-CliniQ System Ensures Efficient Tracking of Vital Signs, Regardless of the Distance.

With the e-CliniQ system, medical parameters are transmitted to the monitoring service center. Using Aerotel's Medical Parameters Monitoring (MPM™) receiving software at the monitoring service center, data is captured, viewed and automatically entered into the patient's records.

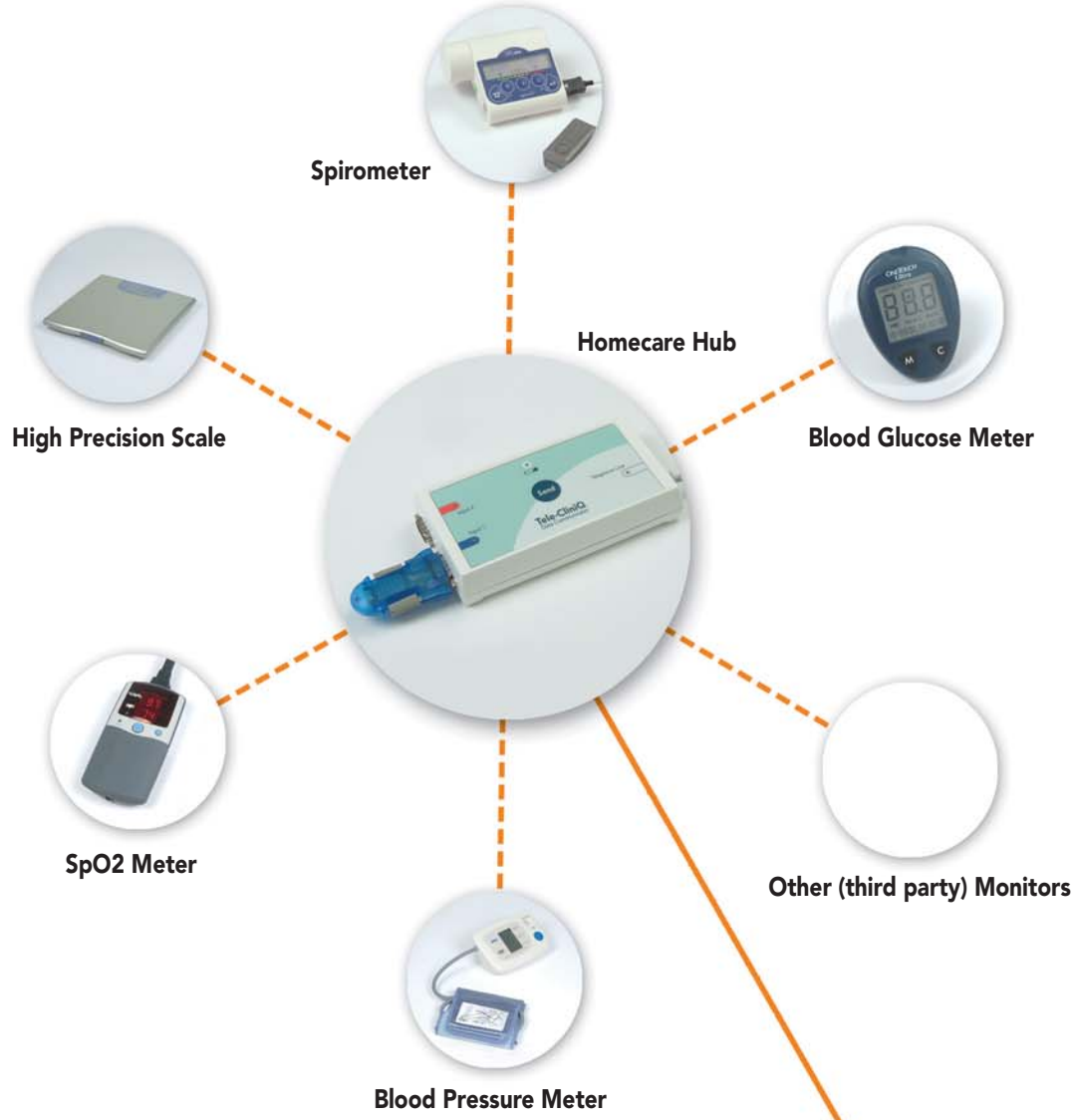
Flexibility and adaptation to patient needs is the key to e-CliniQ's success.

Aerotel's homecare communication hubs are designed for individual patient use. Installed in the user's home, they can be connected to the specific monitors specified by the patient's physician, while transmitting the data to the monitoring center over various media, such as telephone lines, cellular networks or the Internet. Medi-CliniQ is perfect for use in public locations – such as pharmacies, nursing homes, community clinics, etc.

The e-CliniQ System Consists of:

- Homecare Communication Hubs:
 - Tele-CliniQ™/Tele-Modem™ (PSTN)
 - Connect-LAN™ (IP)
 - Connect-CELL™ (GSM/GPRS) **New!**
- Medi-CliniQ™ – Public Care Station (Kiosk)
- Home-CliniQ™ – PC-Based Homecare System
- Mobile-CliniQ™ – Mobile-Health Hub **New!**
- MPM™ – Cutting-Edge Medical Receiving Software
- MPM-Net™ – Remote Access to MPM Data
- Third-Party Compatible Homecare Devices

The logo for e-CliniQ, featuring the text "e-CliniQ" in white on a dark blue background, with a green vertical bar to the left.



Medi-CliniQ™



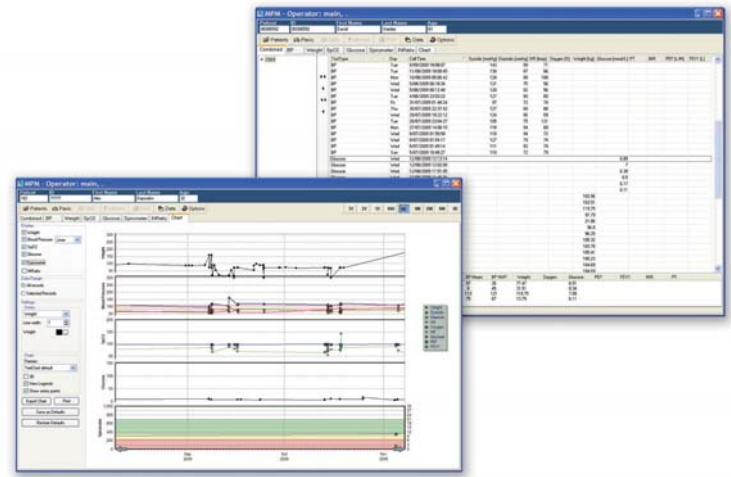
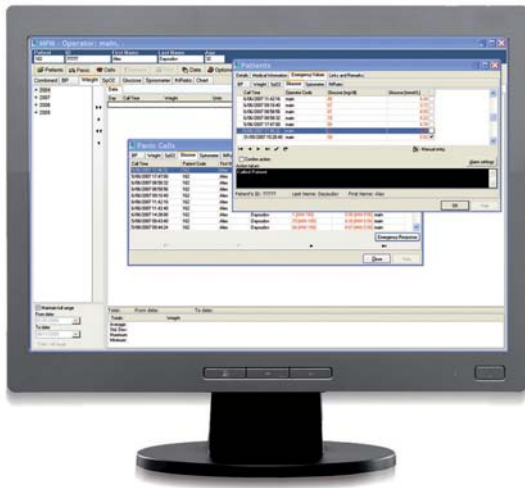
Call Center



Mobile-CliniQ™



Home-CliniQ™



e-CliniQ

Medical Parameters Monitoring (MPM™) MPM-Net™ - Remote Access to MPM™ Data Call Center Applications

MPM™ Call Center

State-of-the-Art Medical Data Acquisition Center for Efficient Monitoring of Vital Signs

MPM call center serves as the receiving station for Aerotel's medical parameters monitoring and disease management. It is a modular platform designed to serve a wide range of health monitoring needs. Easy to operate, it can be applied to any standard PC equipment*.

Comprised of an MS-SQL Database server and workstations connected in a network configuration, it is designed for long-term monitoring of medical parameters and offers various access and management options.

Patients can use Aerotel's homecare Communication Hubs as data transmitters in order to send test results to the MPM call center.



MPM™ Call Center Cont.

Applications

- Call center applications for immediate diagnosis of subscribed patients
- Hospital outpatient follow-up
- Early patient discharge from hospitals (helps reduce costs)
- Allows pharmaceutical companies perform drug compliance
- Receives digital data transmission for offline analysis Data access through the Web for subscribed patients and their physicians
- CHF patient follow-up

Features

- Microsoft SQL™ database with full patient data management capabilities
- Stand-alone or network operation options
- Digital reception of data by either modem(s) or Internet
- MPM can receive data from various third-party compatible devices (Please contact us for a complete list)
- Automatic patient code generator
- Medical history of each patient
- Possibility of setting alarm values for each parameter to suit the patient's medical status, in order to activate an alarm if the received data exceeds preset threshold values
- Display of alarm source and handling of alarm options
- Reporting capabilities such as data, diagrams, histograms. Scatter graph (where appropriate)
- Secured access to system via password protection
- Remote access manager to generate user names and passwords for patients who wish to access their data via the Web

Benefits

- Flexible and modular platform
- Short training period
- Easy to implement and use
- Cost-effective
- Low operational costs

MPM - Net™

Web-Based Access to MPM Data

Aerotel's MPM-Net system is an essential add-on to the MPM system enabling remote access of authorized users (patients, physicians, or companies) to view monitored medical values via the Web.

MPM-Net is a unidirectional system, enabling a "read only" operation for patients and/or remote physicians.

Applications

- Remote monitoring of chronically ill patients
- Primary care system for remote areas
- Home Telehealth systems

Features

- Secure remote access to MPM patient database via the Web
- Remote viewing of incoming values for various parameters, such as:
 - Blood pressure
 - Weight
 - Blood glucose
 - SpO2
 - Spirometry
- Medical data and patient data are instantly available for viewing over the Web to authorized users
- Individual alarm listing for every patient and parameter

Benefits

- Patients are monitored in the comfort of their own homes and physicians can access patient data from anywhere anytime
- Increase patient's quality of care
- Improve patient compliance by enabling the patient to view data
- User friendly and easy to use
- Enables unmanned receiving center for remote monitoring of vital signs
- Reduces operational costs of receiving center

FDA Cleared

Communication Hubs

Multi-Parameter Acquisition & Transmission Systems for Remote Monitoring, Telemedicine and Homecare Applications

Speaking the Same Language

In today's digital world, speaking the same language transcends direct human contact. Aerotel's communication hubs ensure seamless data transmission from various homecare sensors to a remote medical monitoring center, regardless of vendor or protocol used. Applications include remote data monitoring, homecare and telemedicine. With Aerotel's communication hubs one can enhance his or her quality of life by transmitting vital signs data to a central receiving station for immediate monitoring and advice.

Compatible with Aerotel's software receiving systems, these data hubs are easy to install and operate, and can be used by anyone with limited training.

They can be activated in one of two ways:

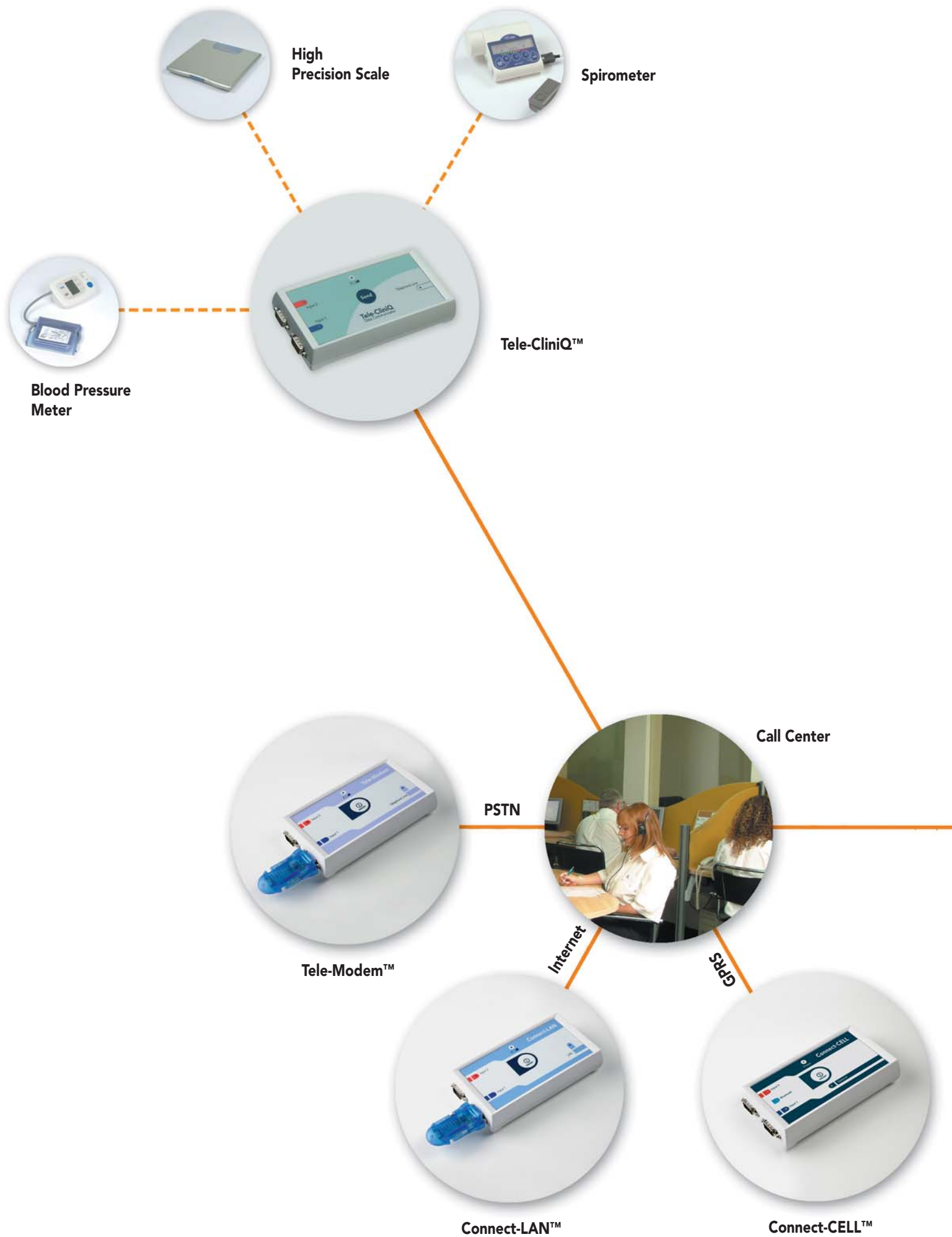
- 1) By pressing the on/start button
- 2) Automatically, once a measurement has been taken

Once activated, the devices automatically read and transmit data to a remote monitoring center.

A Wide Range of Solutions to Choose From

- Tele-CliniQ™ - Advanced telemedicine application using fixed phone lines
- Tele-Modem™ - Advanced home monitoring using fixed phone lines
- Connect-LAN™ - Advanced home monitoring using Internet connection
- Connect-CELL™ - Advanced remote monitoring using GSM/GPRS connection **New!**
- Home-CliniQ™ - PC-Based homecare application with Internet connection
- Medi-CliniQ™ - PC-Based public health station (kiosk), with Internet connection
- Mobile-CliniQ™ - Mobile-Health application for cellphones **New!**

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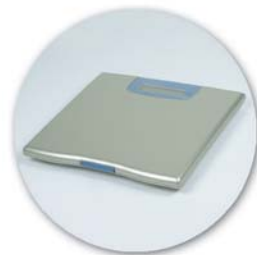
External
Sensors



Blood Pressure



ECG



Weight Scale



Glucometer

e-CliniQ

Tele-CliniQ™

Personal Multi-Parameter Medical Acquisition Hub for the Home

Streamlined Medical Management of Home-Based Chronically Ill Patients

Tele-CliniQ significantly eases the burden of monitoring medical parameters of chronically ill patients, while enhancing their quality of life. An easy-to-use multi parameter communicator, it can simultaneously transmit data from up to four medical devices to a receiving center equipped with Aerotel's MPM software. Once measurements have been recorded into each connected instrument, the user may simply presses the "Start" button for transmission. Alternately, the hubcan automatically activate parameter reading and transmission according to a preset schedule. Its automatic data transfer is reliable and minimizes human error. Tele-CliniQ streamlines medical management because it is both time and cost effective.

Applications

- Data collection from devices such as:
 - Blood pressure
 - Weight
 - Blood glucose
 - SpO₂
 - Respiratory peak flow
 - ECG



Spirometer



Pulse Oximeter

Features

- 4 inputs for up to 4 different medical parameters
- Programmable user ID code
- Real-time clock for automatic scheduling
- Automatic shut-down when operation is completed
- Instant redial if line is busy
- Automatic device recognition and transmission

Benefits

- Auto or one-button operation
- Increases physician/patient interaction
- Improves patient education and compliance with treatment programs
- Affordable solution for ongoing medical monitoring of different parameters
- Automatic reception at the Call Center

Technical Data

Medical Device Support

For an updated list of compatible devices
please contact: info@aerotel.com

Medical Device Inputs

2x D-Type connectors, RS-232 & TTL for each connector

Data Transfer (via modem)

As per E1381-95

Modem Data Rate 2400 bps (V.22 bis)

Dialing Mode Pulse or Tone

Real Time Clock Internal RTC With Backup Battery

Device Programming

Locally via RS-232 Input

Remote via Modem

Indicators

Low Battery Green/Red LED

Input1 Status Green/Red LED

Input2 Status Green/Red LED

Telephone Line Status Green/Red LED

Power

2x 1.5V Type AA Battery

1x 3V Type CR2032 Battery (RTC Backup)

Dimensions 165x92x30 mm

Weight 255 grams (including battery)

Specifications subject to change without prior notice.
FDA Cleared, CE Mark



e-CliniQ

Tele-Modem™ for Telephone Lines
Connect-LAN™ for IP Networks
Connect-CELL™ for Cellular Networks

Personal Multi-Parameter Homecare Acquisition Hubs

Tele-Modem™ for Telephone Lines

User-Friendly Home Data Hub

Tele-Modem home data hub is an advanced version of Aerotel's Tele-CliniQ, designed to transmit data to a receiving monitoring center, such as Aerotel's MPM. Tele-Modem runs on an external power supply and is especially designed to enable Bluetooth device operation with no limitations.

Tele-Modem conforms with applicable IT and telephony standards.

Connect-LAN™ for IP Networks

Internet Data Hub

Connect-LAN home data hub gives information transmission and retrieval global connectivity. Users can easily transmit data via the Internet to a central monitoring center.

Connect-CELL™ for Cellular Networks

Cellular Data Hub

The latest addition to Aerotel's data hub family, Connect-CELL is a highly flexible global connectivity hub. Users can easily transmit data via the cellular network (GSM/GPRS) to a central monitoring center. Connect-CELL is a flexible device, with both serial interface and a built-in Bluetooth module.

Features

- 4 serial inputs
- Supports multiple devices in same firmware
- Supports Bluetooth® connectivity
- Programmable ID Code
- Remote programming capability
- Upload via FTP (Connect-LAN/Connect-CELL) with secure FTP (SSL) connectivity
- Web set-up interface (Connect-LAN/Connect-CELL)
- Automatic device recognition and transmission
- Enhanced internal memory for data storage
- Upload via modem connection (Tele-Modem)
- Automatic shut-down when operation is completed
- Redial if line is busy (Tele-Modem)
- Automatic detection of Call Waiting (Tele-Modem)

Benefits

- Automatic or single-button operation
- Affordable solution for any data collection application
- Compatible with Aerotel's MPM and HRS systems
- Affordable solution for ongoing monitoring of different parameters
- Automatic reception at the call center
- Easy access anywhere, anytime

Technical Data

Feature	Tele-Modem	Connect-LAN	Connect-CELL
Connection	Modem: 2400 bps	RJ-45 IEEE 802.3	GPRS
Protocol Compatibility	V.22bis (2400bps)	TCP/IP; HTTP; SSL; DHCP; FTP; NTP SSL: Secure FTP RFC 2228; SSL RSA with RC4 128 MD5; SSL RSA with RC4 128 SHA; SSL RSA with 3DES EDE CBC	GPRS, TCP/IP, FTP
Dialing Mode	Pulse or Tone	N/A	N/A
Dialing Features	Dial Tone Detection; Disable Call Waiting; Prefix Dial; Auto Redial; Auto Answer	N/A	N/A
Device Inputs	2x D-Type connectors, RS-232 & TTL for each connector		
Data Transfer	As per E1381-95		
Memory	16 Kbyte Internal Nonvolatile Memory		
Real Time Clock	Internal RTC with Backup Battery		
Device Programming	Locally via RS-232 Input; Remote via Modem	Web interface	Locally via RS232, remotely via FTP
Status Indicators	Power Green LED; Input1 Green/Red LED; Input2 Green/Red LED; Telephone Line Green/Red LED	Power Green LED; Input1 Green/Red LED; Input2 Green/Red LED; Network Green/Red/Amber LED;	Power Green LED; Input1 Green/Red LED; Input2 Green/Red LED; Network Green/Red/Amber LED; Bluetooth Blue LED
Power	1x 3V Type CR2032 Battery (RTC Backup); External power supply; Input voltage: 100-240 VAC 50/60; Output voltage: 5V DC; 1A	1x 3V Type CR2032 Battery (RTC Backup); External power supply; Power Supply Input voltage: 100-240 VAC 50Hz and Output voltage: 5V DC; 1A	1x 3V Type CR2032 Battery (RTC Backup); External power supply; Power Supply Input voltage: 100-240 VAC 50Hz and Output voltage: 5V DC; 1A
Dimensions	165x92x30 mm		
Weight	Approx. 155 grams		

Specifications subject to change without prior notice.



External Sensors



Blood Pressure



ECG



Weight Scale



Glucometer

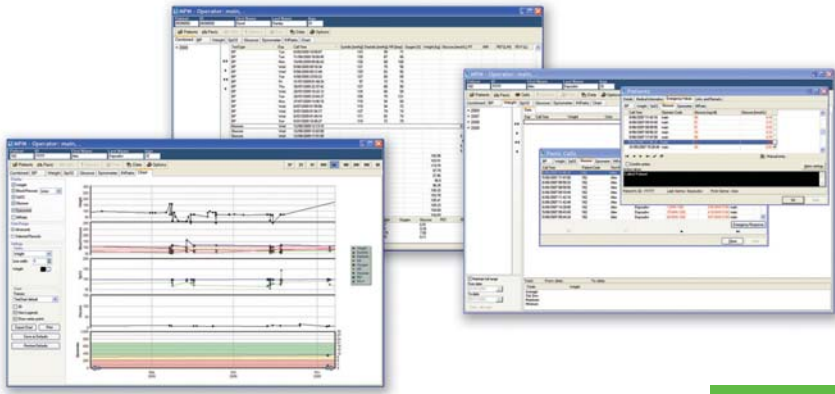
e-CliniQ

Home-CliniQ™ Medi-CliniQ™

Home-CliniQ™

Wireless Data Collection for Home Users

Home-CliniQ is a PC application software installed at the user's location. Home-CliniQ allows the monitoring of various parameters. It communicates with vital sign monitoring devices via a wireless, Bluetooth interface. Home-CliniQ monitors incoming wireless connections. Once a wireless connection is detected, it establishes a communication protocol with the transmitting device. Home-CliniQ's window will then display the status of the communication. Upon completion of a successful data transfer, the received data will be stored on the PC's hard disk and sent via the Internet to Aerotel's MPM or HRS systems.



Medi-CliniQ™

Public Multi-Parameter Medical Acquisition Center

Medical Parameters Transmission from Points of Care

Medi-CliniQ is a public system designed to supply primary health care services where medical staff is scarce. Capable of connecting different medical devices with digital output, it can accommodate an unlimited amount of users. Medi-CliniQ can be installed as a stand-alone unit or in modules, according to client specifications. On-screen, user-friendly guidelines direct patients on how to perform necessary tests. Once Medi-CliniQ acquires data, it automatically transmits it to the MPM Receiving Center via the Internet.

Applications

- Public-care data acquisition station

Features

- Easy device set-up
- Smart card reader (optional)
- User-friendly, on-screen guidelines
- Option: Add-on video-conferencing unit

Benefits

- Unlimited number of users from same location
- Provides fast and easy access to primary health care
- Cost effective
- Reduces healthcare delivery costs

Users

- Pharmacies
- Third age nursing homes
- National health centers
- Remote locations
- Private clinics
- Gyms

Compatibility - Home-CliniQ/Medi-CliniQ™ are compatible with various digital medical devices. For updated information please contact us.



Spirometer



Pulse Oximeter

Applications

- Homecare data acquisition

Features

- Bluetooth® input
- User ID code
- Real-time clock
- Automatic device recognition and transmission

Benefits

- Seamless operation
- Wireless transmission to a local PC
- Increases physician/patient interaction
- Improves patient education and compliance with treatment programs
- Affordable solution for ongoing medical monitoring of different parameters
- Automatic reception at the call center



External Sensors



Glucometer



Weight Scale



Blood Pressure



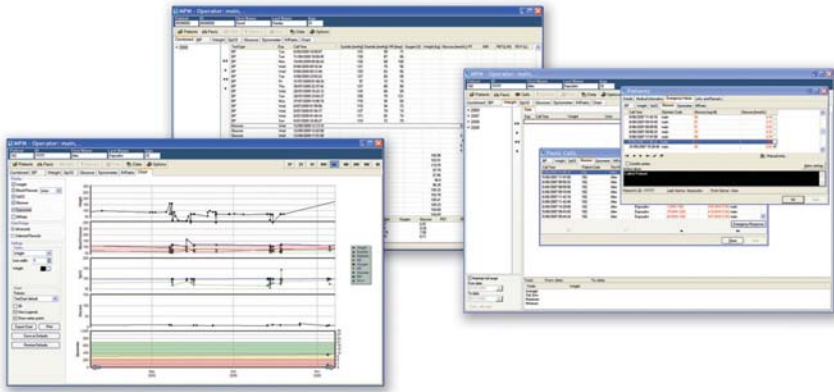
ECG

e-CliniQ

Mobile-CliniQ™

Wireless Data Collection for Mobile Users

Mobile-CliniQ is a Symbian-based cellphone application software. Mobile-CliniQ allows the monitoring of various parameters and communicates with vital sign monitoring devices via a Bluetooth® interface. Data is sent via GPRS to a medical monitoring center. With Mobile-CliniQ, personal health service becomes a reality for today's mobile lifestyle.

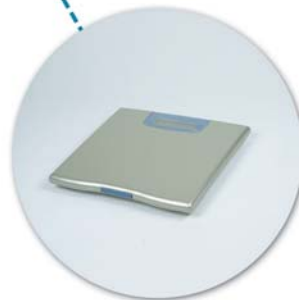


Blood Pressure

Mobile-CliniQ™



**HeartView™ P-12/8 BT
Personal 12 lead ECG**



Weight Scale

Applications

- Personal ,mobile-health service

Features

- Easy set-up and operation
- Bluetooth® input
- Automatic device recognition and transmissic
- User-friendly, on-screen guidelines

Benefits

- Seamless operation
- Wireless transmission
- Increases physician/patient interaction
- Improves patient education and compliance v
treatment programs
- Automatic reception at the call center