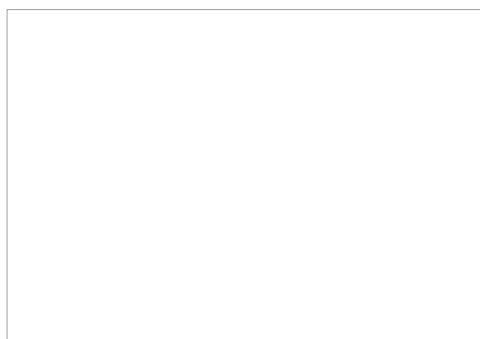# Remedi

Remedi

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Empowering Services at the 'Point of Care'

Healthcare organisations are constantly searching for the most efficient and effective ways to consolidate frontline patient facing systems and services.

Essential requirements for patient wellbeing have been identified through the development of better defined patient pathways and more co-ordination in the delivery of patient care. The identification of these essential requirements allows healthcare organisations to form clear targets for their achievement. As a result, these performance targets and initiatives are now in place across hospitals worldwide in an effort to further improve the patient experience when in hospital.

As a result, healthcare providers now realise that technology is a vital component of the patient experience and one that can be used to significantly improve it. Patients are empowered to take control of their health journey by utilizing interactive services at the point of care.

Advanced technology solutions now provide entertainment, communication, education and the ability to feedback, which are the first steps in increasing patient satisfaction and in helping healthcare organisations address the challenges of future delivery of care.

Interactive Patient Care

Remedi believe that intuition in tune with innovation is the formula for creating the very best product inspiration.

"Remedi solutions, deliver a diverse, compelling interactive experience."

Communication

Providing the ability to stay connected via email, video chat, or telephone provides more comfort for patients who want to stay in touch with family and friends. A computer at the bedside also enables complete integration with the hospital information system, aiding hospital staff.

Entertainment

Patient satisfaction is an ever increasing focus for healthcare institutions. Providing access to TV, video-on demand, games, music, radio and the internet helps keep patients happy and satisfied during their hospital stay.

Empowerment

Providing a clear patient plan ensures patients will be better informed about their illness as well as their treatment and care plans. Services such as meal ordering, pain management, room control, and real-time satisfaction surveys can all be managed and controlled through the bedside device.

Education

Providing better health literacy can have a proven positive impact on patient health outcomes. Remedi solutions can help to provide information about health conditions, care plans, and pre- and post-discharge instructions as well as hospital to home connectivity, helping patients achieve a faster recovery.

Versatile computer platforms

Remedi Interactive Patient Solutions are based upon modular innovation, user interaction and practical functionality. The complete healthcare solution provides a unique platform for the most challenging applications. Remedi's unique knowledge and experience of the healthcare market continues to assist in driving the development of new technology and product innovation.

Information access, entertainment and e-business transactions are a fundamental part of our modern world. Whether people are shopping, traveling to work or in hospital, Remedi solutions deliver a diverse, compelling, interactive experience. The versatile software integration and computing platform provides a medically compliant solution for the most demanding healthcare applications.

> "The solution provides medical and nursing staff fast access to records and data, improving workflow efficiencies."

Solutions designed to fit your healthcare environment

Interactive

Leading edge touchscreen technologies are integrated on all Remedi healthcare terminals. Touch inputs via the touchscreen ensure a rapid and accurate interaction via fingertip, fingernails, gloved fingers or stylus which can be easily cleaned to avoid any cross infection.

Multimedia

The interactive patient solution utilises many multimedia features; video, voice over IP, web camera/video, and stereo audio. Advances in hardware decoding ensure that the processor utilisation is minimised for high powered graphic and multimedia applications.

Communication

The voice over IP handset utilises digital telephony and incorporates a membrane keypad and an optional 2D barcode scanner. Additional communication through software applications is supported by the web camera/video and stereo audio functionality.

Connectivity

Power controlled USB ports and audio connectivity (for headphones) are provide for system users. A variety of external peripherals can be adapted to the docking areas of the terminals. The connectivity for the terminals is accessed through a unique interface which ensures that all cables are hidden and protected, making installation/maintenance easily manageable.

Security

The smart technology solution utilises a RFID reader to activate a secure portal for healthcare staff to access patient clinical records. Smartcard readers are incorporated for unique patient login, or payment credit for selected entertainment services.

Warnings

An LED is incorporated into the telephone handset. These call indicator LED's are easily visible for the user from all angles and flash in time with the incoming telephone ringer. All functionality has software support.

Environmental

Front face IP65 sealing is provided to protect against the ingress of fluids and dust that may be encountered. The rear design of the Remedi healthcare terminals is compliant to IP54 standards using practical, innovative design to maximise natural convection cooling inlets and exhausts and avoid fluid ingress.

Fanless

Unique attention has been focused on the thermodynamics of the Remedi product solution. All products are fanless, which ensures higher reliability and silent operation. The advanced hardware designs provide complete thermal management for the embedded platforms used in the Remedi product range.

Solution Architecture

Remedi co-ordinates an approved partnership programme to ensure a complete and unified solution for our customers. Every step is taken to establish a smooth and a tailored service focused on producing a coherent delivery programme.

Remedi

Preferred Partner

"No other company provides an end to end solution so extensively tried and tested. The experience and technology speak for themselves."

Benefits for:

Patient

Experience: Providing a variety of media – TV, radio, video on demand and games as well as integration with the hospital's kitchen management system, enabling patients to select their own meals. Additionally, patients can control the lighting, blinds and air conditioning in their room, saving staff valuable time.

Communication: Improving doctor-patient relationships by helping healthcare professionals to communicate smarter and more efficiently via real-time messaging and video conferencing. Connecting patients with family and friends by means of internet apps, chat, Voice-over-IP, webcam and e-mail.

Education: Educational videos explaining prevention methods, medical procedures or treatment plans, Patients can use the solution to make notes about their treatment and medication or raise questions relating to their illness or condition.

Independence: Empowering patients and encouraging their independence will ensure a better care continuum and faster recovery times.

Staff

Accuracy: Doctors and nurses can access the hospital back office securely using a smart card or via RFID. With information about drug allergies, prescriptions and test results right at the bedside, helps to make the right decisions at the right time

Efficiency: Accessing a patient's medical records at the bedside reduces paperwork and possible transcription errors.

Workflow: Effective technology can assist with improved workflow, saving staff valuable time that can then be spent on critical duties and with patients.

Hospital

Transparency: The solution technology enables logging and tracking of patients and medical equipment. The unique barcode scanner, helps reduce medical errors during medication management. Asset tracking using RFID tags reduces incidences of lost equipment and possible theft. Additionally, patient feedback surveys instantaneously measure patient feedback and experiences..

Profitability: Greater clinical efficiency saves time and money. Integrating Voice-over-IP reduces communication costs, and integrated billing systems improve hospital administration. Additionally, patient entertainment services provide hospital management with new revenue options to further increase profitability.

"The long term reliability and performance of the platform are a prerequisite for the development of the Remedi products."

Medi-Link

The Medi-Link range of healthcare displays are configured for many diverse applications. The modern design is both stylish, practical and ideally suited for demanding environments. Medi-View is configured as a separate display head and control box (I-Hub). This system solution provides a future proof hardware path for partners and end users, as the flexible platform approach enables more powerful computing solutions to be retrofitted at a later date. This is because the challenges of increased power and weight are more easily resolved in this configuration.

The display range incorporates a high quality LCD display, touch screen and internal electronics which link to the I-Hub computer. During installation the display is mounted on an arm fixed to bedside furniture or the headwall, which articulates the screen to provide the end user with easy access to software applications and provides medical staff with access to clinical records and workflow data.

Medi-Link is used in applications such as Bedside point of care, dialysis, ICU, medical carts.

Key Features

- 15.6" and 18.5" HD+ displays
- P Cap and Resistive touchscreens
- Modern aesthetic design
- High reliability
- Unique mounting solutions
- Multi-platform OS support
- Low power fanless design
- Antibacterial casing
- Adaptable peripherals
- Cable management
- Dual screen support
- Easy maintenance and upgrades
- Medically approved CUL 60601/3

"Medi-Link's unique split architecture provides us a clear upgrade path for the future."

Specifications:

Display Screen	**Display Type:** 15.6" and 18.5" HD TFT (1366 x 768 resolution) **Brightness:** 350 Cd brightness **Touch Screen:** 5-wire resistive or projective multi-touch
External I/O	**RFID:** 13.56 MHZ support ISO 14443A , ISO 15693 , ISO 14443B **Handset & Cradle:** VOIP handset with 2D barcode scanner (optional) **Contact Reader:** USB interface, integrated on underside of display
Environmental	**Water Proof:** IP54 on front panel, IPx1 rear **Thermal:** Full system fanless design **Operating Temperature:** 0~40°C
Mechanical	**Mounting:** Top mount hinge or VESA (75 x 75mm) mount for Arch-Swing or Flex-Swing **Waterproof:** IP65 on front panel, IPx1 rear
Reliability	**EMI Test:** CE/FCC Class B/ICES/VCCI/RCM **Safety:** UL/CUL/IEC 60601-1

I-Hub

The I-Hub platform has been designed in conjunction with the Medi-Link display system. The unique I-Hub development integrates the mounting arm and a fanless computer platform in a simple aesthetic enclosure designed for use in a healthcare environment. Future developments extend the I-Hub capabilities to wirelessly link various mobile devices, providing a unique solution for interactive patient care. The product has been designed for easy access for maintenance or for upgrading the core computing technology. The I-Hub operates 24/7 in a healthcare environment, therefore the casing has been designed to be easily cleaned and the industrial computing platform designed for ultimate reliability.
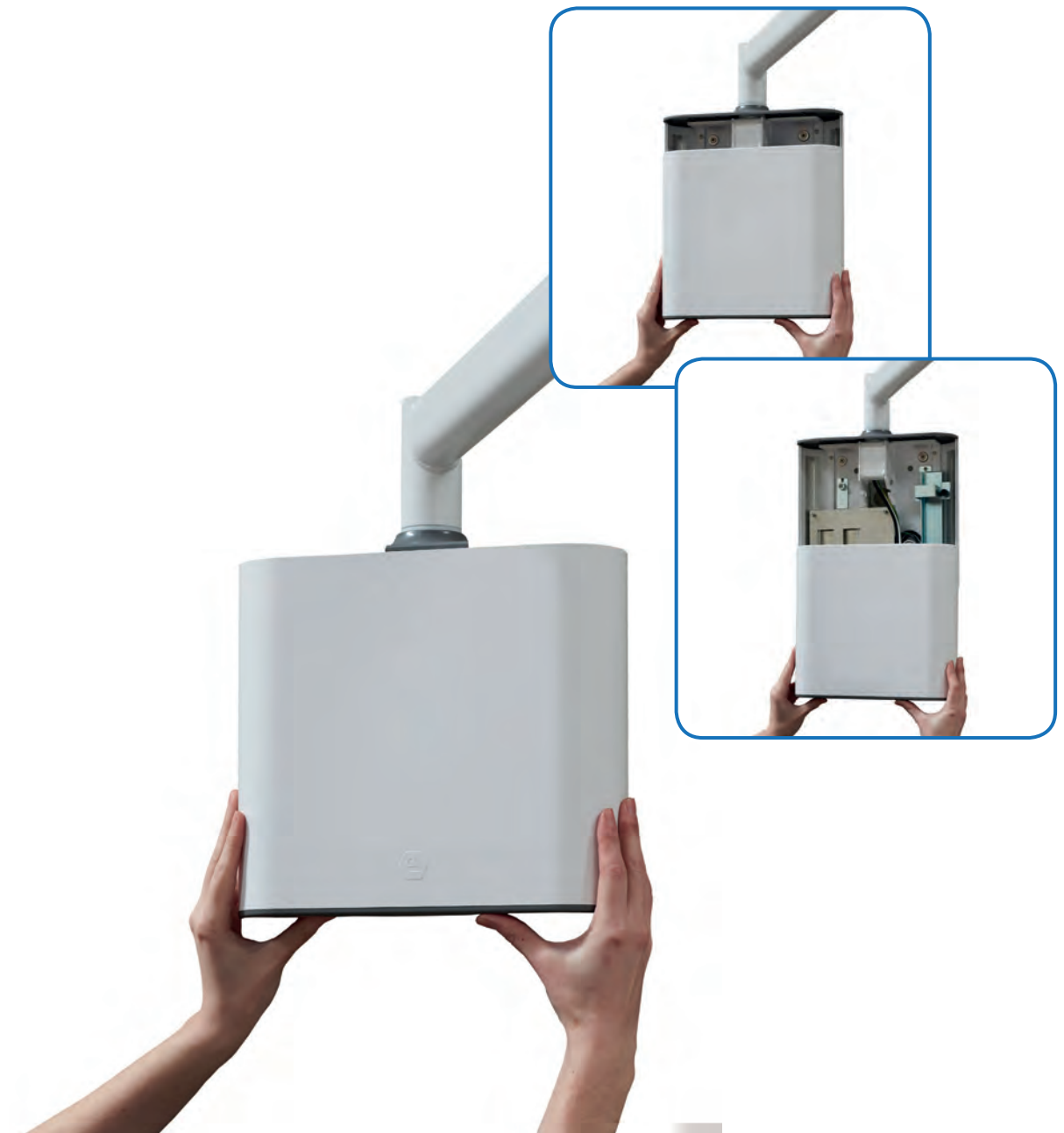
(intel®)

Remedi products offer Intel Atom processors, developed with ground-breaking power management techniques, high performance and software scalability. A wide temperature range and small form factor make Atom processors ideal for fanless, quiet operation, critical in a medical environment. Longevity of supply ensures Remedi has a reliable long-term solution for hospitals and clinics worldwide.

Key Features

- Arm Mounting: Arch-Swing - Flex-Swing
- Easy access for maintenance/ upgrades
- Powerful fanless computing platform
- Power reset for system
- HDMI connectivity for games modules
- Clean aesthetic design
- Medically approved CUL 60601/3
- Various wall mounting options

Specifications:

System

CPU: Intel® Baytrail E3845 1.91GHz Motherboard
BIOS: AMI UEFI BIOS, 64Mbit SPI Flash ROM
System Chipset: Valley View SoC Integrated
System Memory: 8GB DDR3L 1066 / 1333 SDRAM
Watchdog Timer: H/W Reset, 1sec. ~ 65535sec./1sec.step
H/W Status Monitor: Monitoring System Temperature, Voltage
Expansion: 1 x Mini PCIe (mSATA Supported)
USB: 1 x USB 3.0, 3 x USB 2.0
Ethernet: 10/100/1000 Base-Tx Gigabit Ethernet Compatible
WIFI / BT: WIFI 802.11 b/g/n , BT 4.0
Operating System: Windows, Linux, Android

Mechanical

Mounting: Arm mounting spigot for Arch-Swing or Flex-Swing
Casing: Antibacterial plastics quick swap design

Reliability

EMI Test: CE/FCC Class B/ICES/VCCI/RCM
Safety: UL/CUL/IEC 60601-1

"The computer is powerful but silent, utilising the latest processing technology."

Medi-View

The Medi-View 18.5 inch healthcare display is configured as a complete system solution. It incorporates a high quality LCD display, touch screen and fanless embedded computer in a modern antibacterial enclosure. During installation, the display mounts to an arm fixed to bedside furniture or the headwall. The arm articulates the screen to provide the patient with easy access to software applications and provides medical staff with access to clinical records and workflow data. Medi-View is used in applications such as bedside point of care, dialysis, ICU and medical carts.

Key Features

- 15.6" and 18.5" HD+ displays
- P Cap and Resistive touchscreens
- Modern aesthetic design
- High reliability
- Unique mounting solutions
- Multi-platform OS support
- Low power fanless design
- Antibacterial casing
- Adaptable peripherals
- Cable management
- Dual screen support
- Easy maintenance and upgrades
- Medically approved CUL 60601/3

"The solution provides a medically certified "all in one" design well thought out and easy to clean."

Specifications:

Display Screen	**Display Type:** 15.6" and 18.5" HD TFT (1366 x 768 resolution) **Brightness:** 350 Cd brightness **Touch Screen:** 5-wire resistive or projective multi-touch
Computing	**CPU:** Intel BayTrail-T/CR Z3735F CPU 1.83GHz **Operating System:** Windows, Linux, Android
External I/O	**RFID:** 13.56 MHZ support ISO 14443A , ISO 15693 , ISO 14443B **Handset & Cradle:** VOIP handset with 2D barcode scanner (optional) **Contact Reader:** USB interface, integrated on underside of display
Mechanical	**Thermal:** Full system fanless design **Operating Temperature:** 0–40ºC **Mounting:** Top mount hinge or VESA (75 x 75mm) mount for Arch-Swing or Flex-Swing **Waterproof:** IP65 on front panel, IPx1 rear
Reliability	**EMI Test:** CE/FCC Class B/ICES/VCCI/RCM **Safety:** UL/CUL/IEC 60601-1

Medi-Tab

The 10.1" Medi-Tab is built upon proven industrial product technology and is certified to IP-54 and MIL-STD-810G, The product incorporates a resistive touchscreen and features various integrated options. Fitted with USB 2.0 Type A, micro SD slot, micro HDMI output, micro SIM card slot, WLAN, Bluetooth 4.0 dual mode, NFC and 5MP rear camera. Provide users with diverse ways to connect to the world, either through delivering data to others or receiving information. The Tablet Weighs 1KG (aprox), including the battery which is optimized for up to 8 working hours. Once the battery is depleted, the hot swap internal battery will support a battery exchange for up to 15 minutes hence optimizing workflow, the solution is suitable for mobile Healthcare applications including medication and inventory management and full operating system support is provided for Windows and Android. This integrated approach ultimately saves costs and development time The tablet can be docked into a unique cradle which provides power and a functional stand and when the device is mobile users can choose between a hand strap or mushroom type finger grip.
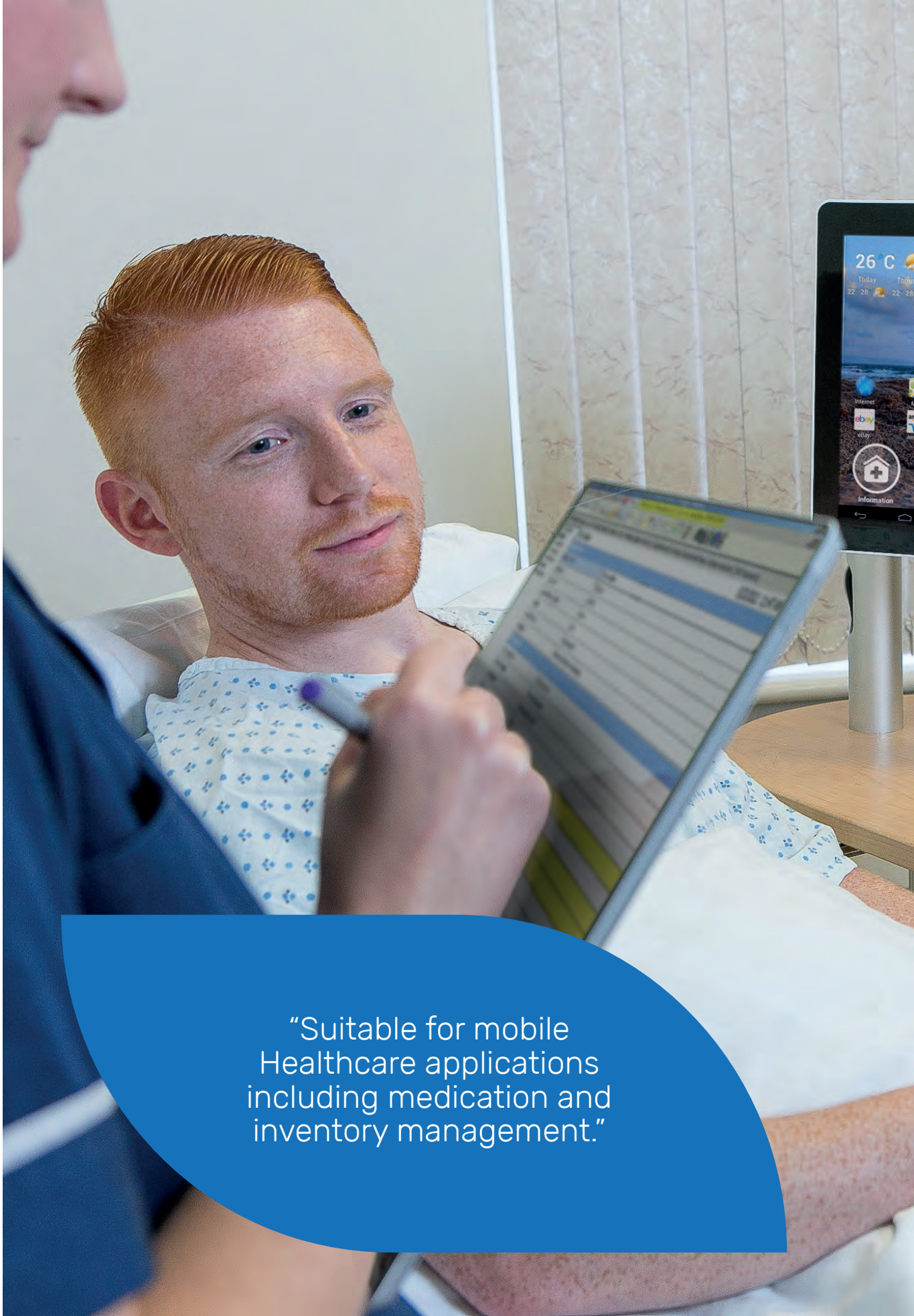
Key Features

- Semi-rugged designed for Healthcare applications
- MIL-STD-810G & IP-54 certified, 4-feet drop resistance
- 10.1" TFT color LCD 1280x800 HD
- 10 point projected capacitive multi-touch panel
- High mobility with multiple connectivity including WLAN, Bluetooth and WWAN
- Optional built-in 2D barcode scanner
- Hot-swappable battery with optimized battery life up to 8 hours
- G sensor, light sensor

Specifications:

Display Screen	**PCAP Touch:** 10.1" (1280 x 800 resolution)
Computing	**Intel BayTrail:** T/CR 3735F QC 1.33GHz **SW Support:** Win 8.1/10 or Android 4.4 **Onboard:** 2G DDR3, 32G eMMC (up to 64G)
External I/O	**Built in:** Rear 5.0 MP Camera **Barcode Scanner:** Integrated 1D/2D **Smart Card Reader:** Optional MSR **Built in NFC Module:** Compliant with RFID **Built in Wifi:** b/g/n & BT 4.0 , Optional 3G/4G
Mechanical	**Power:** Hot Swappable Main Battery, Battery Life > 8 Hours

"Suitable for mobile Healthcare applications including medication and inventory management."

Arch-Swing

The Arch-Swing arm has been developed specifically for use with monitors and patient terminals. The arm offers a long reach, perfect balance and maximum vertical and horizontal movement. The design has integrated cables allowing easy connectivity to the Remedi interactive patient terminals. The arm is constructed with the latest materials and manufacturing methods, incorporating internal gas springs, which can be adjusted to the exact weight of the display so that perfect balance can be achieved. The arms are fully tested with a range of different weights, each will expect to have an operating life in excess of 40,000 cycles. The arms can be integrated with the I-Hub wall box or ceiling/floor mounts and can be easily parked away from the patient when not in use.

Ceiling Mounts

Remedi Ceiling Mounts provide an effective mounting solution when supporting walls are not suitable for installation. The ceiling mounts are provided in standard lengths of 1.5 or 1.8 metres. Custom lengths can be ordered if required as well as telescopic adjustable versions.

Key Features

- Carry weights up to 12Kgs
- Minimal loading on walls
- A high quality and robust construction
- Perfectly balanced with high vertical movement
- Easy repositioning and manoeuvrability
- Integrated cabling
- VESA mounting
- Long reach (1200mm)
- Easily cleaned and disinfected

"The arm is lightweight, aesthetically pleasing with a perfect balance."

Specifications:

	Adjustable	Fixed
Height	40cm range	Various
Max Carrying Load	10kg (subject to height)	10kg (subject to height)
Castors	5 castors, 75mm, 2 braked	5 castors, 75mm, 2 braked
Compliance	CE	CE

Flex-Swing

The Flex-Swing articulating arm has been developed specifically for use with monitors and patient terminals. The arm offers a very long reach, perfect balance and maximum vertical and horizontal movement. The design can be adapted to carry a high payload and can be extended in length for custom applications.

The design has integrated cables allowing easy connectivity to the Remedi interactive patient terminals. The construction uses the latest materials and manufacturing methods, incorporating internal gas springs, which can be adjusted to the exact weight of the display so that perfect balance can be achieved. The arms are fully tested with a range of different weights, each will expect to have an operating life in excess of 40,000 cycles. The arms can be integrated with the I-Hub wall box or ceiling/floor mounts and can be easily parked away from the patient when not in use.

Key Features

- Versatile mounting plate
- Universal 32mm mount
- Internal Cable management
- Easy to clean designm
- Built to bespoke lengths (subject to MOQ)
- Custom mountings available upon request.

"The Flex-Swing arm provides a ideal solution for our bedside solution easy to use and clean."

Specifications:

	Adjustable	Fixed
Height	40cm range	Various
Max Carrying Load	15kg (subject to height)	15kg (subject to height)
Castors	5 castors, 100mm, All braked	5 castors, 75mm, All braked
Geni-Tec™ System	Dual dock push button release Adjustable regulated output 12-28V	Dual dock push button release Adjustable regulated output 12-28V
Compliance	CE	CE

Medi-Table

A collaboration between Bytec Healthcare and Remedi has produced the Medi-Table. This new and exciting product is a fully integrated, easy-to-use solution which enables patients to interact and communicate with family and friends, enjoy advanced entertainment services or access educational materials, order meals and make service requests.

Remedi's innovative interactive patient care systems streamline routine tasks and reporting at the point of care, enabling clinicians to rapidly and securely login to view and interact with the patient's EMR, providing shared medical information and images with the patient at the bedside.

Bytec's Geni-TecTM power system provides a mobile solution which can be operational 24/7. Users can rapidly deploy the Medi-Table inpatient and outpatient environments throughout the hospital, providing connected mobility. This system is revolutionary for point of care applications.

Key Features

- 15.6" and 18.5" display options
- P Cap and Resistive touchscreens
- Hot swap Geni-Tec™ battery system
- Height adjustment
- Anti bacterial surface
- High reliability
- Unique display mounting solutions
- Multi-platform OS support
- Low power fanless design
- Adaptable peripherals
- Full cable management
- Easy maintenance and upgrades
- Silent lockable castors
- Stable solution designed platform

"The Medi-Table is a technology revolution no cables or arms on the wall provide a flexible mobile product solution."

Specifications:

Height	30cm range
Max Carrying Load	20kg (subject to height)
Castors	5 castors, 100mm, All braked
Compliance	CE, EN 60601-1

Geni-Cart

A mobile cart for bedside data applications has been developed in collaboration with Bytec Healthcare. This new ultra-mobile solution provides a fast and effective data entry point for interactive EMR and patient data updates. Remedi's innovative interactive patient care systems streamline routine tasks, enabling clinicians to rapidly and securely login to view and interact with the patient's EMR, share medical information and images with the patient at the bedside or collaborate with patients about their course of treatment.

The Geni-TecTM mobile power solution is wireless, and incorporates "hot swap" batteries which do not require complex installation. The Medi-Cart can be rapidly deployed and integrated with the Remedi Medi-View product solutions. This fully integrated solution provides a new era for point of care computing.

"Powered with the Geni-Tec™ power system this medical cart can provide a truly wireless solution."

Key Features

- 15.6" and 18.5" display options
- P Cap and Resistive touchscreens
- Hot swap Geni-Tec™ battery system
- Height adjustment
- Anti bacterial surface
- High reliability
- Unique display mounting solutions
- Multi platform OS support
- Low power fanless design
- Adaptable peripherals
- Full cable management
- Easy maintenance and upgrades
- Silent lockable castors
- Stable solution designed platform

Specifications:

Dimensions	280 x 211 x 29mm
Languages	UK, US, French, German, Spanish, Italian, Danish (others available upon request)
IP Rating	IP65
Net Weight	0.75kg
Compliance	CE, FCC, UL60601 and UL 1950/ CSA 22.2 950

"Remedi can design, manufacture, deliver and support our customers, partners and end users within healthcare with complete confidence."

Maintenance and Support

Reliability and Maintenance

Remedi's ranges of healthcare terminals are designed for high performance, modularity and reliability. Careful selection of industrial components, unique manufacturing processes and progressive testing ensures that the Remedi healthcare terminal range achieves new standards in embedded terminal technology. The unique design provides a ground up solution in a variety of user environments. The long term reliability and performance of the platform are a prerequisite for the development of the Remedi products.

Support

Our sales channels are supported by a solid and robust operational infrastructure. We strive to supply high quality and reliable products, further sustained by extended warranties and on-site support. We understand the importance of maintaining an after sales service structure for all our products throughout their life-cycle. Using our own in-house repair and service department we can ensure quick and effective response to problems encountered in the field.

Our direct relationships with end users means we can gather and deliver valuable feedback to our manufacturing, engineering and design teams, allowing us to improve and enhance the products we offer. Remedi is accredited across the group with the ISO 9001:2000 Quality Management System and we pride ourselves on ensuring that our processes are controlled and audited effectively, maintaining consistent levels of service excellence.

"Our highly trained teams have many years' experience in their fields and specialise in working with embedded hardware solutions in demanding environments."

Warranty for peace of mind

Ownership of a Remedi product is further enhanced with the reassurance of a robust service infrastructure which protects investment and ensures maximum product uptime and performance optimization.

Remedi's service support is unrivalled in the industry and our service infrastructure is of the highest quality, from post-sale technical support to our full suite of onsite services. Our highly trained teams have many years' experience in their fields and specialise in working with embedded hardware solutions in demanding environments.

Remedi is not the licensee of any technology partner's product or service and makes no warranties, expressed or implied, including any implied warranties or fitness for a particular purpose.

We understand that not all of our customers require the same support, so we have created a comprehensive suite of extended warranties to provide a variety of flexible options.

To renew or enhancing your warranty please contact your Remedi Technology Partner.

Please note that technical response times may vary.

Corporate responsibility

We are committed to protecting the future of our planet and its people through proactive engagement in environmentally and socially responsible programmes.

Legislative and safety compliance

We understand the importance of complying with all international legislative and safety regulations and commit to ensuring compliance to the highest level for the benefit of all those who interact with our products.

Reclamation & Recycling

A large percentage of our products are made from highly recyclable aluminium and over 90% of our products, by weight, can be recycled at the end of their life.

"Innovation is a formula which creates the very best product inspiration.'"