



# Concepteurs LLC

## Telemaintenance Anywhere Anytime

Concepteurs introduces the Teleconsole™ S6U4W network appliance – the ultimate remote diagnostic access (RDA) gateway product on the market today. It is the first unified, cross-platform RDA solution that’s vendor independent and can quickly make diverse medical equipment telemaintenance-ready. Biomedical technicians now have secure remote access to medical equipment from anywhere in the world. The Teleconsole offers swift diagnostic access to equipment, reducing maintenance costs and service downtime. With immediate return on investment, the product is also future-proof by innovative engineering that allows expansions and customizations to support operational growth.

Concepteurs Teleconsole is an integrated hardware and software solution that is ruggedized and designed for noise-free and dust-free operations; and the miniaturized hardware form factor / small physical footprint allows the unit to be embedded inside other equipment. It unifies all known RDA methods into a single platform encompassing access methods based on in-band (multifaceted VPN routing and secure ports tunneling), and out-of-band (serial and USB console interfaces). Ranging from software upgrades to calibrations on medical equipment, and from over-the-shoulder collaborations with remote subject matter experts (SMEs) to real-time troubleshooting and repair, technicians have full reach to biomedical equipment on-demand and in real-time. Furthermore, the Teleconsole solution can be expanded to include video / audio conferencing / surveillance, environmental sensors, RFID tracking of equipment, and more. These enrich the technicians’ telemaintenance experience with unprecedented visibility to not only

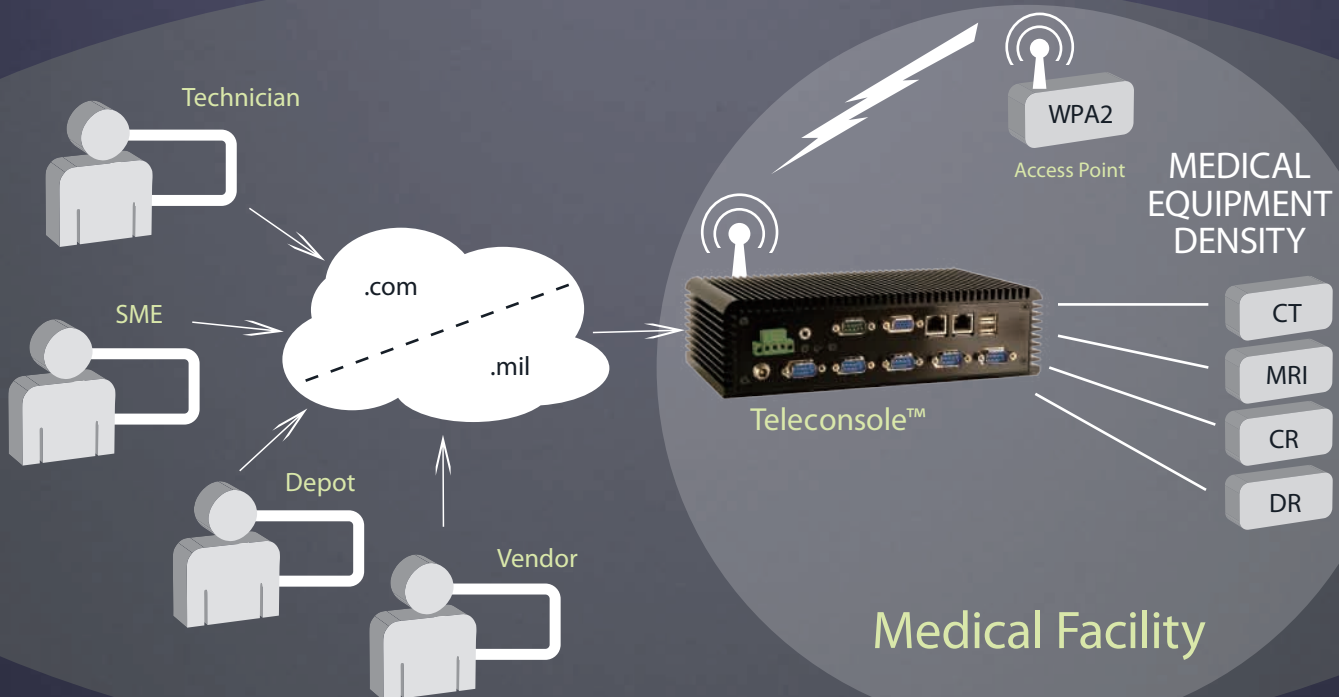


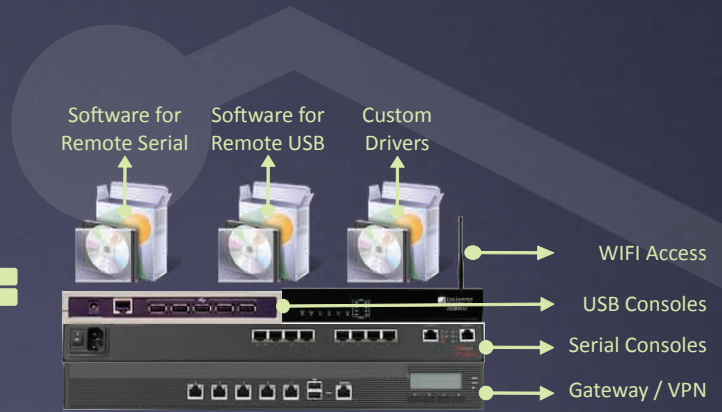
the troubled equipment but also to the environment in which it is installed.

Concepteurs Teleconsole’s underlying technology and methodology was developed from DoD funded R&D initiatives, and was engineered specifically to deliver a full telemaintenance capability for biomedical equipment deployed in mobile hospitals in theater of operations. The Teleconsole can operate in a FIPS 140-2 compatibility mode and support HIPAA-strength passwords as well as government issued PKI/CAC for user authentication.

### Key Benefits

- **Smart Investment** – One Teleconsole that enables telemaintenance for multiple medical devices.
- **Effective Management** – One platform that standardizes as well as centralizes all diagnostic access.
- **Efficient Operations** – One product that unifies and simplifies equipment telemaintenance.
- **Increased Productivity** – One technician can rapidly respond and remediate equipment problems in multiple sites.
- **Optimized Resource Utilization** – One Subject matter expert (SME) can support many local maintainers.
- **Reduced Overhead** – One solution to eliminate most travel expenses and costs associated with equipment downtime.

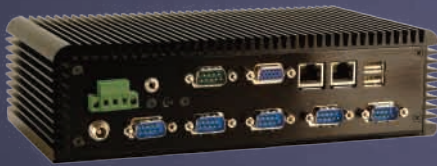




## Key Features

**Interoperability Platform** Many types of equipment use proprietary protocols and diagnostic tools for communication and management. The Teleconsole interoperates with original equipment manufacturer (OEM) supplied diagnostic tools thereby creating a single platform of authentication, authorization, and access (AAA) for equipment telemaintenance.

**Application Hosting/Distribution** Software applications can be uploaded to the Teleconsole solution and hosted there for distributed use on an on-demand basis. Users are 'served' out these applications when the service is needed, eliminating the requirement of pre-installing apps in the user's client environment. There is no limit to the number of applications that can be hosted in the Teleconsole solution.



**On-demand COM and USB Virtualization over the Network** A virtual COM or USB port is created on-demand to simulate the physical device. As a result, the application thinks it is talking directly to the device via the COM/USB port, preserving the functionality of console applications.

**Virtual USB Smartcard Credential verification** Capability to pass smartcard credentials from a USB key through the virtual media feature. An inserted USB smartcard/key on the client machine will appear on the remote machine as if locally connected, allowing remote authentication when local access is traditionally needed.

**FIPS 140-2 Level Security** All traffic is encrypted by SSL with FIPS 140-2 compatible encryption algorithms. Secures communications in all instances and complies with DoD PPSM in government installations.

**Military Strength Wireless** Built-in wifi conforms to US Army CAISI v2 initiative for local access connectivity, while also creating a private zone to support additional wireless modules. Allows for connectivity in locations where running physical cables may not be feasible.

## TECHNICAL SPECIFICATIONS

|                       |                       |                                                                                               |
|-----------------------|-----------------------|-----------------------------------------------------------------------------------------------|
| PLATFORM              | Memory                | 2 GB DDR2 SDRAM SO-DIMM                                                                       |
|                       | Network               | (2) Ethernet RJ45 10/100/1000 ports<br>Built-in 802.11 b/g wireless adapter                   |
|                       | Storage               | 16 GB SATA SSD<br>4 GB Hi-Speed CompactFlash                                                  |
|                       | Display               | Local Graphical Console                                                                       |
| I/O                   | Serial                | (5) RS-232 DB9 ports<br>(1) RS-232/422/485 DB9 (selectable)                                   |
|                       | USB                   | (4) USB 2.0                                                                                   |
| MECHANICAL            | Dimensions (DxWxH)    | 132 x 229 x 64mm (5.197 x 9.016 x 2.520 in)                                                   |
|                       | Chassis               | Black Aluminum Alloy fanless design                                                           |
|                       | Weight                | 2.1 kg / 3.9 kg (4.63 lb / 8.60 lb)                                                           |
|                       | Mounting              | Side Mounting Brackets, DIN mount                                                             |
| ENVIRONMENTAL & POWER | Operating Temperature | -10° ~ 50° C, 14° ~ 122° F                                                                    |
|                       | Operating Shock       | Half-sine wave shock 3G; 11ms; 3 shocks per axis                                              |
|                       | Operating Vibration   | MIL-STD-810F 514.5C-1 (HDD)<br>MIL-STD-810F 514.5C-2 (CF)                                     |
|                       | Power Input           | 9V ~ 36V DC on 3 pin Terminal Block<br>Optional 12V DC Input (90V ~ 264V AC @ 47 – 63Hz, 55W) |
|                       | Power Consumption     | 19W                                                                                           |
|                       | Heat Output           | 59.7 BTU/Hr                                                                                   |