



Digi ConnectCore Solutions for Healthcare Applications

Connected Healthcare Devices for Clinics, Hospitals and Homes

Digi's ultra-compact, low-power, highly integrated system-on-module (SOM) solutions offer design flexibility with multiple connectivity options, along with best-in-class security. The result for engineering managers and OEMs is more cost-efficient designs, faster time-to-market and reliable, long-term operation for a range of medical devices.

The Innovation Device Manufacturers Need

The medical device market is vast, and innovation is critical to support the range of devices, from diagnostic machines, infusion pumps and rolling medical carts to automatic external defibrillators (AEDs), medical wearables and telehealth systems. Manufacturers today strive to achieve several critical goals.

FASTER TIME TO MARKET

Those who are first to market often own the market. But regulatory hurdles can lengthen product development cycles. Device makers want proven, pre-certified components so they can bring their products to market faster.

CONNECTED HEALTHCARE

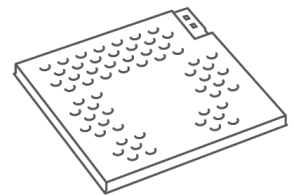
Connected healthcare devices — that can be accessed remotely or tie into EMR systems — improve patient outcomes, accelerate payment cycles and ensure accurate cost capture.

SIMPLICITY

Sophisticated devices require simpler interfaces. Visual displays and touchscreens have replaced terminals and keypads — requiring greater computing power.

SECURITY

Cybersecurity, data privacy and HIPPA compliance are vitally important to any healthcare organization, as is the security of devices that may be monitoring patient vital signs or administering medication. For these reasons, device security is mission critical in healthcare product design.



DIGI CONNECTCORE SOMS

- Industry leading 3-year warranty
- Scalable, future-proof wireless system building blocks
- Designed for reliability and 10+ year longevity
- Vibration/shock and HALT tested
- Fully integrated Wi-Fi/Bluetooth Low Energy
- Superior power management with advanced power save modes through Digi Microcontroller Assist™
- Complete [Digi TrustFence®](#) device security framework
- [Digi Remote Manager®](#) for secure OTS software updates and device performance data collection
- Design scalability and future-proofing with [Digi ConnectCore SOM](#) family and Smart IOMUX Tool

For more information, visit:

www.digi.com

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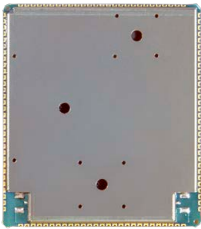
RELIABILITY

Medical devices must withstand intensive daily use in critical situations, all day, every day. This includes all of your embedded components, connectivity, and supporting software. Digi ConnectCore meets these requirements with intensive testing and certifications, and an industry-leading three-year warranty. Even the best technology for monitoring or treating an illness is of little use if medical professionals can't trust it to work reliably all the time, every time.

LONGEVITY AND FUTURE-PROOFING

Medical device manufacturers and end users need stable, long-term product availability. Once a medical device is developed and certified, it is important for that product to be available for long-term production. Digi's extended availability and pin-compatible families ensure long product life and easy upgradability to next-generation ConnectCore SOMs.

Digi ConnectCore: Scalable, Wireless, High-Performance SOMs



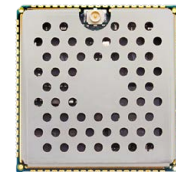
Digi ConnectCore 8X

Cost-effective SOM platform with easy-to-use SMT technology or versatile LGA for access to virtually all interfaces, including Wi-Fi and Bluetooth.



Digi ConnectCore 8M Nano/ Digi ConnectCore 8M Mini

Compact Digi SMTplus® form factor (40 mm x 45 mm) with pre-certified dual-band 802.11a/b/g/n/ac 1x1 and Bluetooth® 5 connectivity.



Digi ConnectCore 6UL

This surface-mount module offers pre-certified wireless 802.11a/b/g/n/ac and Bluetooth 5 connectivity, and is an ideal SOM solution for institutional and healthcare applications.

| Applications | Digi Solution |
|------------------------|--|
| DEFIBRILLATORS | Digi ConnectCore SOMs help accelerate time-to-market for systems that meet strict requirements and provide superior user experiences. These devices use local wireless networks where they are located (such as corporate buildings, airports, malls and casinos), so you can monitor operational status and proactively prevent equipment failures. Excellent power management means superior operational readiness, long life and greater reliability. |
| CART ON WHEELS | These wireless, battery-operated mobile nursing stations use visual displays (with keyboards or touch-screens) for EMR access/updates, CPOE, medication administration, vital-sign capture, lab results and more. Digi ConnectCore SOMs provide location awareness/asset tracking, battery readings and other status info for these carts as well as the ability for device manufacturers to design intuitive user interfaces for clinicians. |
| PULSE OXIMETERS | The built-in intelligence, network connectivity and graphical capabilities of Digi ConnectCore SOMs translate into a better user experience, secure connectivity over hospital networks, and integration with additional applications and features. Battery-powered designs can support mobile/semi-mobile models. |

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| Applications | Digi Solution |
|-----------------------------|--|
| SMART HOSPITAL BEDS | Hospital beds now house sophisticated patient diagnostics and metrics. ConnectCore SOMs allow manufacturers to build smarter beds that provide integrated weight measurements, occupancy tracking, patient entertainment, environmental controls and more. Wireless integration (via Bluetooth) is also possible. |
| SMART INFUSION PUMPS | Infusion pumps built by medical device manufacturers using Digi embedded solutions alert clinicians if they're programmed to over- or under-deliver drugs to a patient. Secure wireless connectivity can integrate seamlessly and securely into a hospital's network and ensure that the pump's internal drug library data is up-to-date. Network connectivity can also trigger alerts on pump maintenance issues and provide centralized asset tracking of pumps dispersed throughout a hospital. |

For more information on how Digi ConnectCore solutions can bring cost-effective innovation and security to your healthcare device designs, visit our [Medical Industry web page](#) or [contact us](#) to speak to a Digi expert. ➔



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