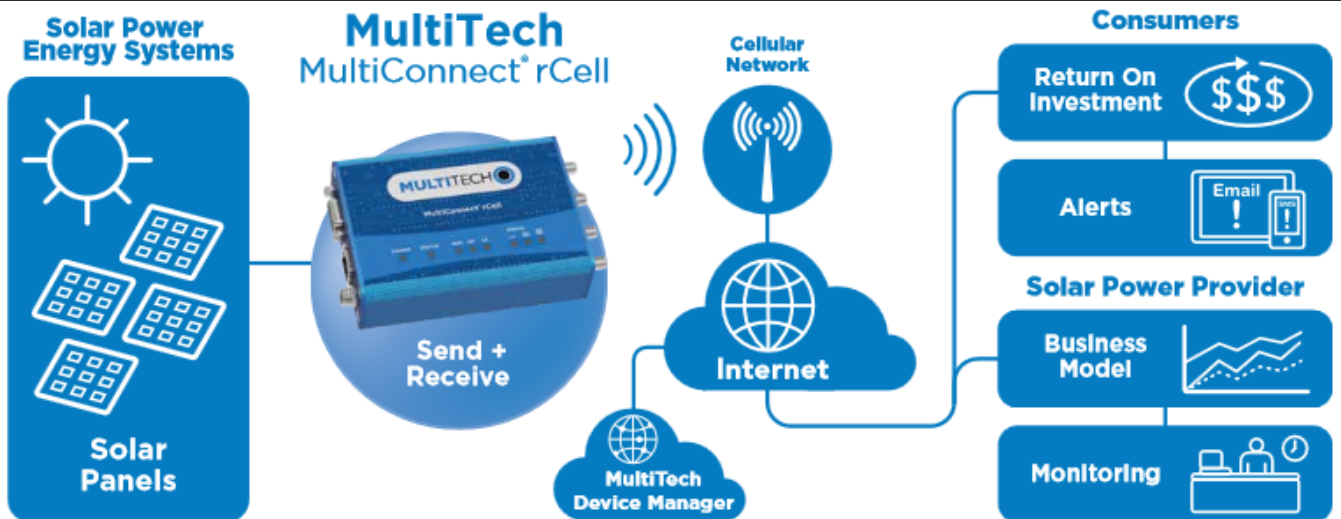


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## SOLAR ENERGY APPLICATION STORY

### MultiTech Cellular Routers Provide Quick and Reliable Connectivity for Solar Power Applications



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Solar power generation is emerging as a competitive renewable energy resource. As such, service providers are looking to monitor, measure and control remote residential solar energy systems and provide homeowners access to updated system and payback information.



### ***Business Drivers***

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- Solar energy generation information is needed to reconcile energy sold back to utility companies to ensure ROI. Service providers are presenting analytics to homeowners to support solar energy investment and pay back.
  - Service providers require a reliable, low-cost means of accessing remote equipment in order to determine the amount of energy being sold to utility companies and provide homeowners analytics to support their return on investment.

### ***Technical Challenges***

- Solar panel control units require remote connectivity
- Homeowner-controlled internet routers are difficult to access, unreliable, or simply not available
- Traditional analog telephone lines cannot be relied upon for data access and in many cases are not available
- Embedded cellular modules are not practical given the time and investment required
- Homeowners security concerns on providing access to their home router

### ***Solution***

MultiTech provides internet connectivity via cellular communications and does not use PSTN/POTS lines. MultiTech's MultiConnect® rCell 100 Series is carrier approved and uses a rugged, SAE tested housing. MultiTech's solution does not require the homeowner to supply any security passwords or allow access to their home network. It is completely independent of the homeowners network.

### ***MultiTech's MultiConnect® rCell 100 Series Cellular Routers***

The MultiConnect® rCell 100 Series of cellular routers are a part of MultiTech's comprehensive portfolio of cellular connectivity products optimized for M2M (machine-to-machine) communications. With the Industry's most cost effective approach to remote device management and shared design approach across multiple cellular technologies, it provides the lowest total cost of ownership to our customers. The MultiConnect rCell 100 Series of cellular routers also offers a long, stable lifecycle, an important consideration for M2M solutions.

### ***Applications***

The MultiConnect rCell 100 Series of cellular routers are used in a wide variety of applications such as solar monitoring, digital signage, smart vending, smart energy or home medical monitoring. Because the routers are

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certified and carrier approved, customers are able to quickly deploy with cellular connectivity to realize new revenue streams, Opex reduction or improved service offering.



## ***Security***

The MultiConnect rCell 100 Series of cellular routers use IPSec industry standard data encryption to provide high performance, secure LAN-to-LAN VPN connections with 3DES or AES encryption using IKE and PSK key management. Support for five concurrent VPN tunnels.

## ***Wi-Fi/Bluetooth Specifications***

The Wi-Fi interface can be set up in 802.11 bgAccess Point (AP) or client mode. In AP mode, the router can support up to 5 client connections. The Bluetooth serial interface allows you to set up a transparent data pipe from a Bluetooth device to a remote server. The router can be configured using TCP or UDP protocols and supports client and server modes giving you the flexibility you need for your particular application. RFCOM and SPP profile support. Contact MultiTech about additional Bluetooth profile support today.