

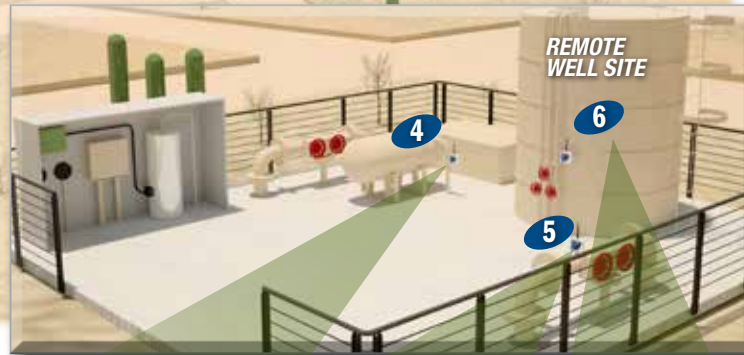
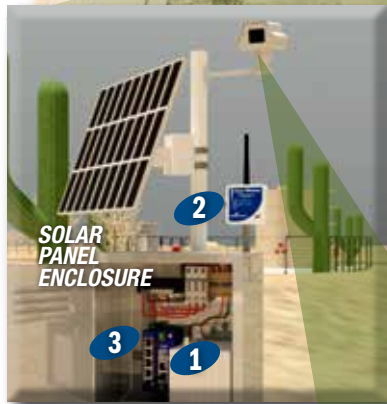
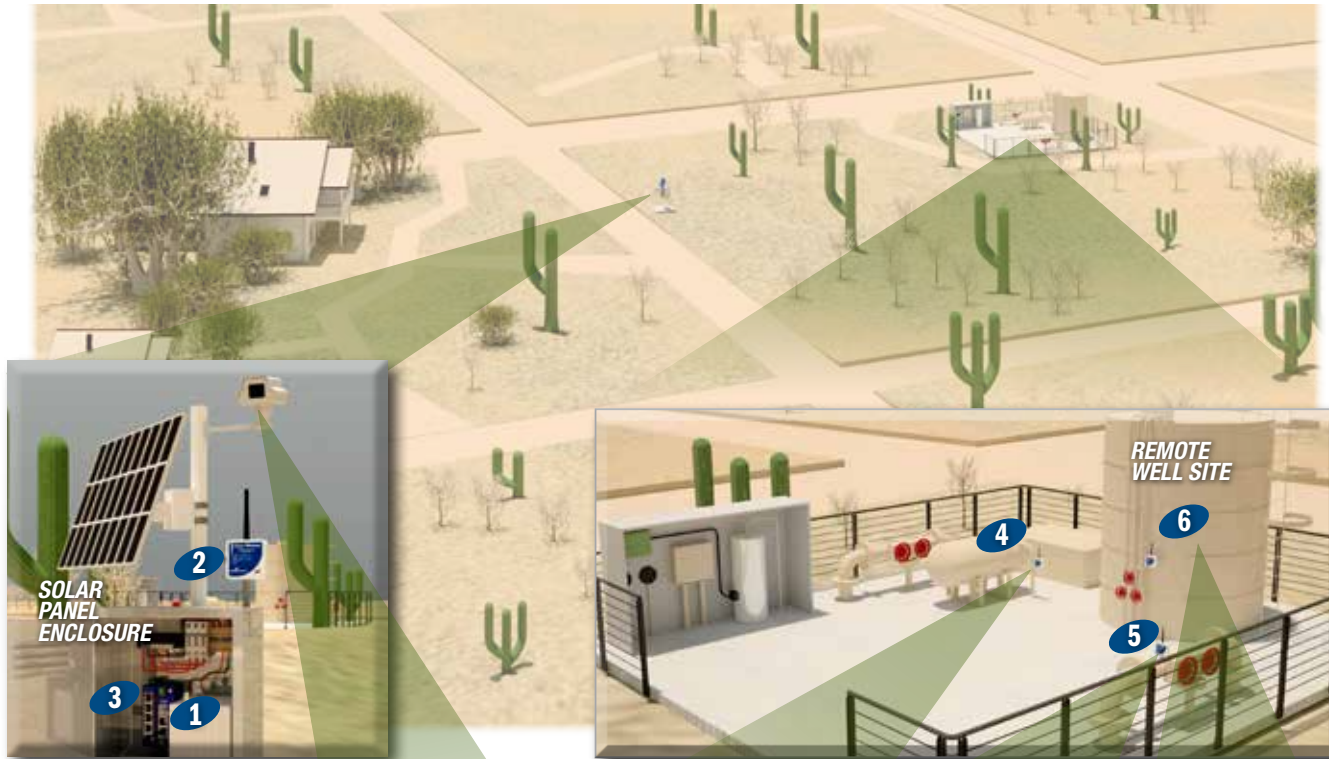
# REMOTE LOCATION MONITORING

## SMART MANAGEMENT OF REMOTE ASSETS

B+B SMARTWORX

Powered by

ADVANTECH



Data feeds can be accessed anywhere in the world via cellular.



1

**SOLAR PANEL BOX**  
Cellular Router  
Model# Spectre 3G series



2

**SOLAR PANEL BOX**  
Wireless Industrial Radio Modem (RF)  
Model# ZXT24-RM



3

**SOLAR PANEL BOX**  
5-Port Ethernet Switch  
Model# ESW105x



4 5 6

**INDICATORS & MONITORS**  
Wireless Industrial I/O  
Model# ZXT24-IO-222R

Managing remote, unmanned and unprotected sites is less problematic with remote monitoring and control solutions from Advantech B&B. Simultaneous management of multiple sites can be done from a central location or via web connection anywhere a supervisor happens to be. Improve efficiency and reduce costs of site maintenance visits by diagnosing the problem before dispatching a technician to troubleshoot.

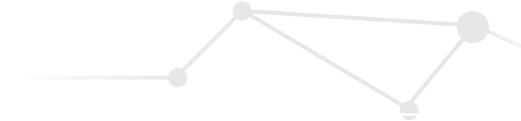
- Monitor temperature, level, flow, and more
- Status alerts via computer, smart phone, fax
- Control automatically or by remote command
- Conduct historical analysis of collected data
- Remote video security

Rugged, reliable and intelligent connectivity solutions from Advantech B&B are at the heart of a growing number of remote monitoring and control applications. Advantech B&B solutions provide flexibility and scalability as needs grow and change. Our wired and wireless solutions connecting devices anywhere - from indoor offices to remote desert well sites - protecting people and property 24/7/365.

- Wireless cellular routers, radio modems, I/O, sensors
- Wi-Fi access points, routers, bridges, serial servers, modules
- Ethernet media converters, serial servers and gateways
- Ethernet switches, routers, extenders
- USB converters, isolators, hubs, extenders
- Serial converters, isolators, repeaters, surge protectors, cards

# REMOTE LOCATION MONITORING

## SMART MANAGEMENT OF REMOTE ASSETS



**B+B SMARTWORX**

Powered by **ADVANTECH**

### SPECTRE CELLULAR ROUTER

- 3G: HSPA+/UMTS/CDMA/EDGE/GPRS
- 3G: 14.4 Mbps download, 5.5 Mbps upload
- 4G: LTE, EVDO, CDMA, UMTS, GSM
- 4G: 100 Mbps download, 50 Mbps upload
- 10/100 Ethernet, 802.11b/g/n, Modbus, WiFi option
- VPN: IPsec, OpenVPN, PPTP, L2TP, EasyVPN, GRE
- DHCP, NAT/PAT/NAT-T, VRRP, DynDNS, VLAN, SMS, NTP
- Security: HTTPS, SSH, Firewall functions



(Spectre LTE 4G option)



### INDUSTRIAL WIRELESS I/O

- UL Class1/Division2, NEMA TS2
- 900 MHz or 2.4 GHz with AES encryption security
- Up to 40mi/64km (line of sight, external antenna)
- RS-232/422/485; Modbus compatible
- Wide temperature: -40 to 74°C
- 30 VDC power input; software selectable output
- IP67 case and components for outdoor applications



### INDUSTRIAL RADIO MODEM

- UL, Class1/Division2, IP67 outdoor rated
- 900 MHz or 2.4 GHz with AES encryption security
- Up to 40mi/64km (line of sight, external antenna)
- Flexible for multiple types of analog/digital I/Os
- Modbus compatible
- Wide temperature: -40 to 74°C
- Versatile 10- 30 VDC power



### INDUSTRIAL SLIMLINE ETHERNET SWITCH

- Ultra compact design - less than 1 inch wide
- UL/cUL C1/D2, EN61000-6-2, IEEE 802.3x
- 5 or 8 ports; LC single, multi-mode fiber ports
- 10/100M, full/half duplex, MDI/MDI-X
- 12-36 VDC and 10-24 VAC dual power inputs
- 2K MAC addresses
- IP30 DIN case; 6 panel mount options

Whether you need to monitor one location or many, Advantech B+B remote monitoring and control solutions can help you maintain visibility and control over facilities and equipment in unattended, inaccessible or distant locations - from anywhere in the world.



**SUBSTATIONS**



**PIPELINES**



**WINDFARMS**



**OIL FIELDS**



**CAMERA SURVEILLANCE**



**STRUCTURAL MONITORING**

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