

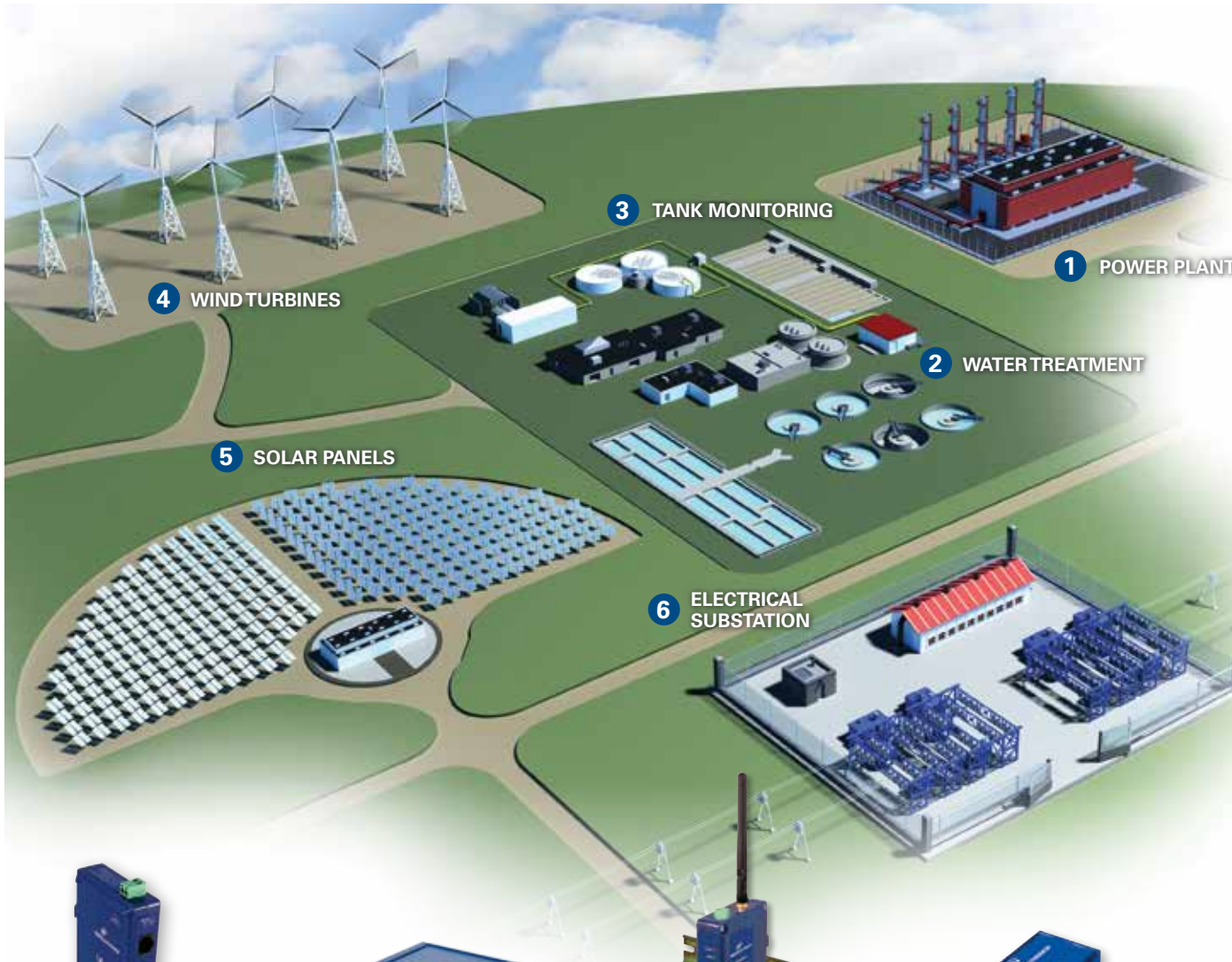
ENERGY PRODUCTION

DATA MONITORING AND MANAGEMENT

B+B SMARTWORX

Powered by

ADVANTECH



Energy utilities are expected to deliver uninterrupted, trouble-free service. It is no wonder they demand reliable data communication infrastructures.

Advantech B+B SmartWorx provides rugged, reliable M2M networking devices and connectivity solutions that keep these service critical networks running, even in harsh environmental conditions. Today, you can put this expertise to work for you.

Advantech B+B SmartWorx can help integrate the latest data technology solutions with legacy systems to ensure networks provide dependable performance. Whether you're designing a new system, retrofitting an existing one, or exploring connectivity options at your network's edge, Advantech B+B SmartWorx can help you reimagine your network, then select the data communication solutions necessary to make it a reality – with expert technical support every step of the way.

Wired or wireless, Modbus to TCP/IP, mountaintops to deserts, Advantech B+B SmartWorx products and solutions provide reliable data communications:

- Class 1/Division 2 rated products
- Wireless cellular routers, radio modems, I/O
- WiFi access points, routers, bridges, serial servers
- Serial converters, isolators, repeaters, surge protectors, cards
- Ethernet switches, routers, extenders
- Ethernet serial servers, gateways, media converters
- Custom & OEM engineered connectivity solutions

1



POWER PLANT
Modbus Ethernet to Serial Gateway
Model# MESR901

2



WATER TREATMENT
WiFi Cellular Router
Model# Spectre LTE & 3G series

3



TANK MONITORING
Wireless Radio Modem
Model# ZP24D-250RM-SR

4



WIND TURBINES
Mini Copper-to-Fiber Converter
Model# IE-MiniMc

5



SOLAR PANELS
Heavy-duty Surge Protector
Model# HESP4DR

6



ELECTRICAL SUBSTATION
Industrial Isolated Serial Repeater
Model# 4850PDRI-PH

ENERGY UTILITIES

DATA COMMUNICATION SOLUTIONS



INDUSTRIAL 10/100 MINI MEDIA CONVERTERS

- Cabinet-to-cabinet connectivity (I/O to PLC)
- Communication distances over 100 meters
- EMI/RFI shielding against transients, surges and spikes
- Secure, tamperproof networking via fiber
- NEMA TS2 (select models); EEE 802.3af compliant
- 10/100 and 10/100/1000Mbps options
- PNP, auto-negotiation, auto-cross (twisted pair cable)
- PoE, DC, AC, USB powering options; wide temperature



MODBUS ETHERNET/SERIAL GATEWAYS & INDUSTRIAL SWITCHES

- Managed, unmanaged, PoE/PoE+
- UL Class 1/Division 2; NEMA TS 2 options
- Ethernet enable serial devices; real-time web managing
- Modbus TCP, ASCII, RTU, master/slave flexibility
- Serial DB9 or TB, copper, fiber, Ethernet pass-through
- Wide operating temperature (-40 to +80 °C)
- Wide 10-58 power range



WiFi CELLULAR ROUTERS

- 3G: HSPA+/UMTS/CDMA/EDGE/GPRS
- 3G: 14.4 Mbps download, 5.5 Mbps upload
- 4G: LTE, EVDO, CDMA, UMTS, GSM
- 4G: 100Mbps 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



THREE-STAGE SERIAL SURGE PROTECTOR

- Three stages of protection on every data line:
 - 1) Gas discharge tube
 - 2) Series resistor
 - 3) Transient voltage suppressor
- Protected signal ground connection
- Rugged terminal block connections
- Dedicated chassis ground lug
- NEMA TS2; Wide operating temperature



WIRELESS INDUSTRIAL RADIO MODEMS

- 900 or 868 MHz, 2.4 GHz with AES encryption
- Up to 40mi/64km (line of sight, antenna dependent)
- RS-232/422/485; Modbus compatible
- Heavy-duty, DIN rail industrial case and components
- Wide temperature (-40 to 85°C)
- Wide power input: 10-48 VDC or 18-30 VAC
- UL Class1/Division2 (long range models)



INDUSTRIAL ISOLATED SERIAL REPEATERS

- UL, C1/D2 listed; IEC-61850-3, IEEE-1613
- NEMA TS2; Shock/Vibration
- 2kV optical isolation on input/output/power
- Modbus ASCII/RTU compatible
- Wide temperature: -40 to 85°C
- 10-48 VDC input power
- IP30 metal panel mount case

B+B SMARTWORX

Powered by **ADVANTECH**

Worldwide Headquarters

ADVANTECH
No. 1, Alley20, Lane26, Rueiguang Road
Neihu District, Taipei 11491
Taiwan, R.O.C
Phone: 0800-777-111
www.advantech.com

Corporate Headquarters

707 Dayton Road
Ottawa, IL 61350 USA
Phone: 1-815-433-5100
Fax: 1-815-433-5109
orders@advantech-bb.com
www.advantech-bb.com

Middle East, UAE, Africa

Alaa Dalghan, General Manager
adalghan@advantech-bb.com
Mobile: +971 50 943 65 62
AG Silver Tower, JLT, P.O. Box 48777
Dubai, UAE

European Headquarters

Oranmore, Co. Galway, Ireland
Phone: +353 91 792444
Fax: +353 91 792445
eSales@advantech-bb.com

Cellular Product Group

Sokolská 71, 562 04 Ústí nad Orlicí III.
Czech Republic
Phone: +420 465 521 020
Fax: +420 464 647 299
GSM: +420 603 872 287
cellularsales@advantech-bb.com

Latin America, Caribbean

Fanny Scargle
fscargle@www.advantech-bb.com
Phone: 1-727-797-0300
Cell: 1-727-480-5920 Skype: fscargle

OEM & Product Modification

Phone: 815-433-5222
Fax: 815-433-5104
Attn: Custom Dept.
custom@advantech-bb.com
Custom Quote Request Form:
http://advantech-bb.com/custom

Since 1981, Advantech B+B SmartWorx has designed and manufactured solutions to support many types of energy generation and distribution infrastructures.



COAL & FOSSIL FUEL PLANTS



SOLAR POWER GENERATION



HYDRO-ELECTRIC POWER SYSTEMS



WIND POWER GENERATION



NUCLEAR POWER GENERATION



PUBLIC WATER UTILITIES



WASTEWATER TREATMENT AND MONITORING



WELL LEVEL MONITORING

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