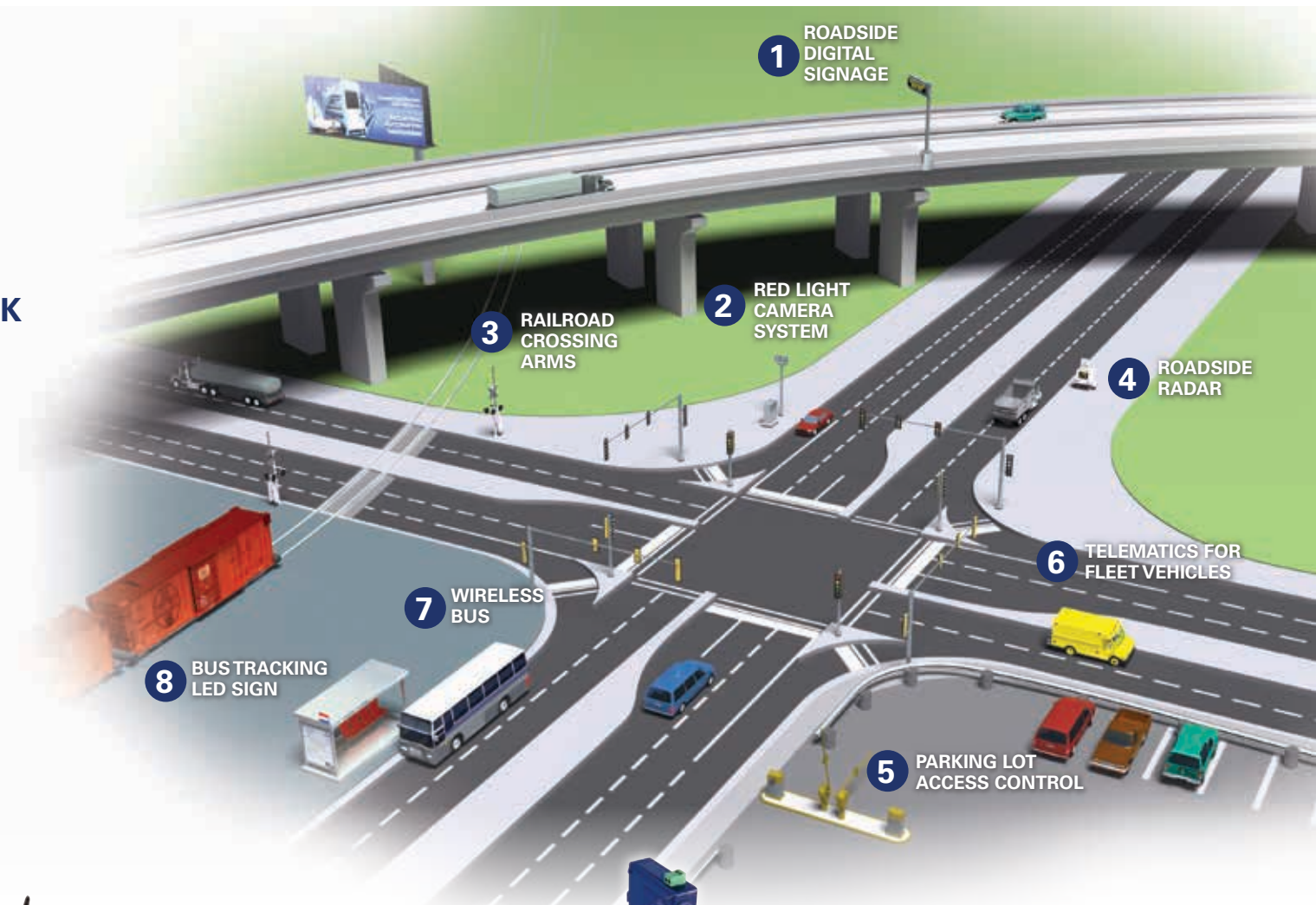


## EFFICIENT TRANSPORTATION SYSTEMS START WITH RELIABLE DATA AND NETWORK COMMUNICATIONS

Transportation is still the lifeblood of modern commerce – nobody gets paid until the goods are delivered or people make it to work. Data and network communication solutions from B+B SmartWorx are at the heart of greater efficiency in data-driven transportation applications. From signaling systems, digital signage, toll management and smart parking to trackside management, telematics to remote mobile asset management, B+B SmartWorx brings focused solutions to intelligent transportation.

B+B SmartWorx offers M2M (machine-to-machine) transportation solutions for trouble-free connectivity and data communications:

- NEMA TS1/TS2 rated products
- Cellular routers
- Wireless radio modems and remote I/O
- WiFi routers, bridges, serial servers, embedded modules, access points
- Telematics fleet management
- Ethernet switches, routers, extenders
- Ethernet serial servers, gateways
- Ethernet media converters, chassis products
- Serial converters, repeaters, isolators, surge protectors, cards
- USB converters, hubs, isolators, surge protector
- Turnkey and custom engineered solutions



**1**  
**ROADSIDE DIGITAL SIGNAGE**  
Industrial Wireless Ethernet Bridge  
Model# ABDN-ER-IN5018



**2**  
**RED LIGHT CAMERA CONTROL**  
Mini Copper-to-Fiber Converter (copper extension)  
Model# IE-MiniMc



**3 4**  
**RAILROAD CROSSING SYSTEM & ROADSIDE SPEED RADAR**  
Ethernet Mini Serial Server  
Model# VESP211



**5**  
**PARKING LOT ACCESS CONTROL**  
Ethernet Serial Server  
Model# VESR901

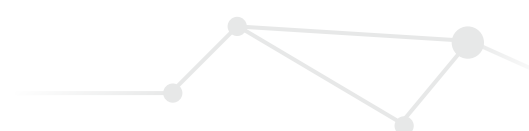


**6**  
**VEHICLE/FLEET TELEMATICS**  
Telematics OBDII Streamer  
Model# LDVDSB2-SV



**7 8**  
**BUS INFORMATION SYSTEM**  
Cellular Router  
Model# Spectre LTE & 3G series

# EFFICIENT TRANSPORTATION SYSTEMS START WITH RELIABLE DATA AND NETWORK COMMUNICATIONS



## INDUSTRIAL WIRELESS ETHERNET BRIDGES

- 802.11a/b/g/n (2.4, 5 GHz)
- One or two serial ports, one Ethernet 10/100 port
- Advanced Enterprise class wireless security
- 2 kV serial ESD surge suppression
- 5-36 VDC variable power supply, PoE 802.3af
- -40 to +85°C extended operating temperature
- AirborneM2M SpeedLink connection reliability



## INDUSTRIAL 10/100 MINI MEDIA CONVERTERS

- NEMA TS2 (select models); IEEE 802.3af compliant
- Extended temperature
- DC and AC powering options
- Unmanaged, Plug-n-Play
- Available in 10/100 and 10/100/1000Mbps
- PNP, auto-negotiation, auto-cross (twisted pair cable)



## ETHERNET MINI SERIAL SERVERS

- UL 60950, 61000-6-2 EMC Level 3
- Ultra compact design fits in tight installations
- IEEE802.3u 10/100BaseT, auto-detecting
- RS-232, RS-422/485, and RS-232/422/485 models
- -40 to 80°C extended operating temperature
- Wide 10-30 VDC voltage input
- IP30 metal enclosure



## 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



## ETHERNET SERIAL SERVERS

- NEMA TS 2 options; UL Class 1/Division 2
- Ethernet enable serial devices; web management
- Direct IP, virtual COM port, or paired mode
- Ethernet pass-through port available
- Serial DB9 or TB, copper, fiber port options
- -40 to 80°C extended operating temperature
- 10-58 wide power range



## TELEMATICS OBDII STREAMER

- OBDII vehicle interface systems
- Tap into onboard diagnostics for fleet management
- Enhance efficiencies, cut expenses
- SAE-J1850VPW, SAE-J1850PWM, SAE-J2284
- ISO15765-CAN, ISO9141-2, ISO14230-4KWP2000
- 1996 and newer vehicles sold in USA

## Learn More!

NEMA TS2 is a standard for traffic control assemblies and cabinet applications like traffic lights, emergency road condition signs and Walk/Don't Walk signs. To ensure high network reliability in your traffic management system, B+B SmartWorx has product options tested for NEMA TS2 environmental requirements:

- Meet or exceed -34 to 74°C temperature range
- Meet or exceed 18 to 95% humidity over the temperature range
- Meet or exceed vibration: 0.5 g @ 5 to 30Hz
- Meet or exceed shock: 10 g

[www.bb-elec.com](http://www.bb-elec.com)



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B+B SmartWorx' technology is found throughout modern transportation systems. B+B SmartWorx supplies a complete line of connectivity solutions, interface products, and essential components to monitor, control and protect your transportation communication installation.



TOLLBOOTHS



TRAFFIC CONTROL,  
LIGHTS & CAMERAS



PARKING  
CONTROL



FLEET  
MANAGEMENT



WEIGH  
STATIONS



SUBWAY  
SYSTEMS



RAILWAYS



AIR TRAFFIC  
CONTROL