

## PRODUCT SPECIFICATIONS

# TRAFFICBRIDGE™ VERSATILE CONNECTIVITY FOR TRAFFICCLOUD™

**ALL TRAFFIC**  
SOLUTIONS



TrafficBridge is a customizable cellular gateway allowing simplified integration of sensors and equipment to TrafficCloud. Built-in interfaces such as Ethernet, Bluetooth, Serial, USB and WiFi provide versatile connectivity in a rugged enclosure. Optional expansion cards provide even more flexibility with GPIO lines and long-range LoRa LPWAN radio. Fast reliable LTE cellular connectivity is provided directly to TrafficCloud.

Interface software and TrafficCloud integration is customized to suit each application's needs. Typical integrations include data collection, reports, device management, and alerts.

General		
Cellular Performance	AT&T (GSM)	Verizon
	LTE 3GPP, HSPA+, GPRS	LTE 3GPP
	Frequency Bands (MHz) 4G: 700(B17)/ 850(B5)/ AWS1700(B4)/ 1900(B2) 3G: 850(B5)/ 1900(B2) 2G: 850/1900	Frequency Bands (MHz) 4G: 700(B13)/AWS1700(B4)
Processor and Memory	ARM9 processor with 32-Bit ARM & 16-Bit Thumb instruction sets	
	<ul style="list-style-type: none"><li>• 400 MHz</li><li>• 16K Data Cache</li><li>• 256 MB Flash Memory</li><li>• 16K Instruction Cache</li><li>• 128X16M DDR RAM</li></ul>	
Storage	Micro SD	
Power	9V to 32VDC standard; Battery backup, Solar power, or AC converter optional	
Connectors	1 RJ-45 Ethernet 10/100 port, 1 USB Host (Type-A), 1 USB Device (Micro-B)	
Operating System	Linux	

Optional Expansion Cards	
GPIO	4 digital inputs (0-30VDC), 3 analog inputs (0-5VDC) 4 digital outputs (Open collector output – 55VDC max, 300mA max)
Serial	Modes: RS-232, RS-422, RS-485. DB9 DTE or DCE configurations available
LoRa	915MHz LoRa LPWAN
Physical	
Dimensions (L x W x H)	6.35" x 4.23" x 1.69" (161.3 mm x 107.4 mm x 42.8 mm)
Weight	1.0 lbs
Chassis Type	Metal
Enclosure	IP65 enclosure optional
Environmental	
Operating Temperature	-30° to +70° C
Storage Temperature	-40° to +85° C
Relative Humidity	20% to 90%, non-condensing
Certifications	
EMC Compliance	US: FCC Part 15 Class B. EU: EN 55022 Class B, EN 55024. Canada: ICES-003
Radio Compliance	FCC Part 22,24,27
Safety	UL 60950-1 2nd Ed., cUL 60950-1 2nd Ed., IEC 60950-1 2nd Ed
Network Approvals	PTCRB, GCF certified module, AT&T, T-Mobile, Verizon
Quality	MIL-STD-810G: High Temp, Low Temp, Random Vibration SAE J1455: Transit Drop and Handling Drop, Random Vibration, Swept-Sine Vibration IEC68-2-1: Cold Temp. IEC68-2-2: Dry Heat
*Specifications are subject to change without notice.	