

# PDN<sup>®</sup> GENESIS<sup>S2</sup>

## SPEC SHEET



The PDN<sup>®</sup> Genesis<sup>S2</sup> is a Secure, Mobile Emergency Comms Case Solution. It is a rugged closed-case portable data network that becomes the ultimate “WiFi Hotspot”, “Network-In-A-Box”, and a ready, accessible “go kit” for cellular, digital-data communications. The PDN utilizes high-gain cellular connectivity to allow its end-users to access and push/pull digital-data as needed per application.

### PDN Genesis Technical Specifications

<b>THE CASE</b> (HOUSING)	<b>Material:</b> Injected molded polypropylene based resin enhanced with several performance additives. <b>Performance:</b> Weather-worthy, impact resistant, and light weight—similar to IP65 rating when case and ports are closed. Automatic pressure release system valve. Micro vent for air while preventing water from entering. <b>Weight:</b> Approx. 30 lbs. <b>Dimensions:</b> 19.8" x 16" x 7.6". <b>Security:</b> Nylon PowerClaw latches, TSA combination padlock capable.
<b>ENVIRONMENTAL TEMPERATURES</b>	Operating Temperature: -30°C to 70°C (-22°F to 158°F)
<b>BATTERIES</b>	2 separated absorbed glass mat (AGM) batteries; up to 40 hours of operational use (load dependent). External battery indicator with low-power alert and charging indication. FAA Compliant AC120-84; sealed batteries and complete power-down capabilities for safe air travel. TSA-friendly, both checked luggage and carry-on.
<b>POWER INPUT VOLTAGE</b>	120/110v AC external port for charging and operating; NEMA 5-15P (3-prong) cord included. 12v DC external port for operating; 2 SAE cords included (12v auto and 2.5mm barrel connector). Power conditioning on DC prevents feedback and potential for arcs/sparks on accidental grounding. External power button—PDN can be fully utilized without ever needing to open the case.
<b>SMARTSOURCE</b>	S <sup>2</sup> processor monitors and manages PDN power source options. Ensures on-board batteries are at an optimal state of charge for the conditions.
<b>DATA INTERFACE PORTS</b>	2 external WAN/LAN configurable Cat 5 ports. 2 ethernet cables included.
<b>ANTENNA</b>	Single dome, high-gain, omni-directional antenna with IP66 rating. 4X4 MiMo Wi-Fi elements, 4X4 MiMo LTE elements (allowing for two concurrent LTE connections with diversity elements), and GPS. WiFi range: Up to 500+ feet from source. WiFi frequencies: 2.4/5.0GHz
<b>ONBOARD CELLULAR GATEWAY</b>	Built in DHCP server   Stateful Firewall   IPSec capable   FIPS 140-2 compliant model available Policy-based routing   802.11 b/g/n/ac   Multiple configurable SSIDs   Carrier agnostic Onboard graphical user interface   GPS Reporting (in TAIP or NMEA)   VLAN support for 802.1Q 64–128 users across WLAN plus wired clients   Network failover capability Cloud-based SaaS support included for configurations, updates, and alerts.
<b>DUAL DOCK OPTION</b>	Works in conjunction with cellular gateway device. Additional modem for two simultaneous, active cellular networks. Capability to augment bandwidth with load balancing. Allows for housing of four cellular network SIM cards total.

