

# 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><br>(HOUSING)      | <b>Material:</b> Injected molded polypropylene based resin enhanced with several performance additives.<br><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.<br><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).<br>External battery indicator with low-power alert and charging indication.<br>FAA Compliant AC120-84; sealed batteries and complete power-down capabilities for safe air travel.<br>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.<br>12v DC external port for operating; 2 SAE cords included (12v auto and 2.5mm barrel connector).<br>Power conditioning on DC prevents feedback and potential for arcs/sparks on accidental grounding.<br>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.<br>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.<br>4X4 MiMo Wi-Fi elements, 4X4 MiMo LTE elements (allowing for two concurrent LTE connections with diversity elements), and GPS.<br>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<br>Policy-based routing   802.11 b/g/n/ac   Multiple configurable SSIDs   Carrier agnostic<br>Onboard graphical user interface   GPS Reporting (in TAIP or NMEA)   VLAN support for 802.1Q<br>64–128 users across WLAN plus wired clients   Network failover capability<br>Cloud-based SaaS support included for configurations, updates, and alerts.  |
| <b>DUAL DOCK OPTION</b>           | Works in conjunction with cellular gateway device.<br>Additional modem for two simultaneous, active cellular networks.<br>Capability to augment bandwidth with load balancing.<br>Allows for housing of four cellular network SIM cards total.   |