

PacStar Universal Smart Chassis

Modular Chassis for PacStar Modules

PacStar® Universal Smart Chassis delivers unmatched flexibility and reliability for today's tactical communications needs, enabling military, government, and commercial expeditionary teams to deploy the latest technology wherever missions take them. Supporting both PacStar 200-Series and 400-Series modules in a single, compact platform, the chassis is available in 8-slot and 4-slot configurations to scale from small, mobile deployments to large, multi-mission systems.

Its toolless design enables customers to quickly swap or reconfigure modules in the field, adapting to evolving mission requirements without specialized tools or training. Whether setting up a forward operating base, supporting a disaster response team, or enabling a mobile command post, the Universal Smart Chassis ensures comms are ready when and where they are needed. The chassis' integrated high-power, UPS-backed DC supply provides continuous operation, even in environments where stable power is not guaranteed. Customers benefit from resilience in austere locations, as the chassis automatically switches to battery backup when primary power is interrupted. An optional AC Input Conditioner adds further flexibility, ensuring compatibility with worldwide mains and field generators, and supports powering two chassis simultaneously for expanded operations.

Beyond powering PacStar modules, the chassis offers auxiliary DC output for mission-critical devices, such as HAIPE encryptors or other inline security appliances, reducing the need for additional power equipment in the field. Its advanced cooling system supports sustained performance across wide temperature ranges, critical for deployments in deserts, arctic environments, or other extreme climates.

Customers will also value the chassis' mobility and packaging flexibility. It is fully compatible with PacStar's proven packaging solutions, including transit cases for rapid deployment, 19" rack-mount frames for fixed installations, SAVE frames for aircraft or vehicle mounting, and rugged Pelican® case-based kits for expeditionary operations. Quick-release features make it easy to remove the chassis for dismounted missions, providing operators with maximum flexibility in fast-moving scenarios.



Key Features

- Supports PacStar 200-Series and 400-Series tactical communication modules in a single chassis
- Fits up to eight (8) 200-Series or four (4) 400-Series modules
- Can be used standalone or with PacStar packaging solutions (transit cases, 19" rack frames, SAVE frame)
- Wide-range (11.8-35VDC) filtered power input supports up to 350W payload
- AC Input Conditioner powers 2x Universal Smart Chassis – plug into any outlet or generator in the world
- Integrated UPS and battery option to support uninterrupted system operation
- Designed for MIL-STD-810/461 harsh environment deployment with robust power input protections

Applications

- Tactical edge deployments in command posts, forward-operating bases, ground vehicles and aircraft, as well as upper echelons – for military, intelligence, law enforcement, and homeland security use



Figure 1: Front/Rear images (Shown with AC Power Conditioner)

Specifications

PacStar Module Support

- Up to eight (8) 200-Series module slots
- Up to four (4) 400-Series module slots (with adapters)
- Toolless, quick-release features

Smart Monitoring (option)

- Remote monitoring support via IQ Core Network Communications Manager (NCM) software
- Support for control, security and shutdown of PacStar modules

Power Specifications

- Wide range 350W DC power input, 11.8-35 VDC
- World-wide AC power input module: 47-63 Hz, 90-264 VAC (with optional AC Power Conditioner)
 - Capable of powering up two Universal Smart Chassis

- Regulated clean 50W power output @ 12 VDC for ancillary equipment (i.e. KG-250X/XS)
- Integrated operational UPS system with battery (compatible with high-power Li-ion rechargeable battery, 298 watt-hours rated)
 - UPS automatically recharges battery when connected to AC/DC prime power and automatically switches to battery if prime power is interrupted

Physical Specifications

- Dimensions (WxDxH):
 - Base chassis: 7.5" x 6.8" x 12"
 - With AC power module: 9.3" x 6.8" x 12"
- Weight (est): ~10 lbs / ~13 lbs. (baseline / with battery & UPS)
- Compatible with PacStar frame/case ecosystem:

- Interchangeable w/ PacStar 400-Series Smart Chassis (4-slot)
- Fits in PacStar Carbon Fiber Transit Case (CFTC)
- Fits in PacStar 19" rack and SAVE frames
- Custom Pelican case for transport available
- Integrated cooling solution supports operating temp range of -20° to +60°C
- Designed to MIL-STD-810 (environmental), MIL-STD-461 (EMI); testing pending by independent labs. Reports available on request

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