PacStar 400-Series Quick Reaction Kit - EXEC

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Lightweight and modular, the PacStar 400-series Quick Reaction Kit (QRK) - EXEC is a secure communications package for executive communicators, quick reaction forces and intelligence missions. Rugged and functional by design, the QRK-EXEC provides VoSIP, cellular, wireless and video services. Included is a Cisco based PacStar 441 SRM router and the choice of a second PacStar 441 SRM for dual network connectivity or a PacStar 442 switch module for network expansion.

The PacStar QRK-EXEC accepts worldwide AC and wide range DC (10 - 36 V DC) through a unique design that has a flexible power module at the core. The kit provides clean 12 V to power a KG-250X HAIPE. Snap together connectors enable the system to operate off common AN/PRC-148 batteries or BA-5590 and BB-2590 military batteries.

Supporting multiple enclaves and multiple types of backhaul, the PacStar QRK-EXEC has access points for hotel, VSAT, Thuraya or the integrated BGAN and 3G/4G access points.

AT Communications can provide a wide array of customized PacStar Compact Case systems providing packaging and transport options for the PacStar 400-series Options include brief-case style, transit case-style, and rack mount solutions, combining the PacStar 400-series modules into integrated deployable solutions.

An option for managing the PacStar 400-series solutions is the PacStar IQ-Core® Software, which ensures the system is configured correctly in the field. The PacStar IQ-Core® simplifies system setup and network management.

Key Features

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- ☑ Enables operation off world-wide AC, wide range DC (10 - 36 V DC) or radio batteries (included)
- ☑ Equipment may be operated in the case or completely external to the case
- ☑ Equipment may be transported pre-wired enabling quick setup in the field
- ☑ Internal sheet metal construction provides robust mounting and protection for equipment
- ☑ Easy access to router ports via extendable mounting platform
- ☑ Radio batteries provide UPS capability when operated from external power

Kit Contents

- ☑ Up to (2) PacStar 400-series modules
- ☑ Optional: (1) Rugged SIP Phone, (1) BGAN 500 Terminal or (1) Laptop
- ☑ (1) 3G / 4G wireless access points
- ☑ (2) LMR radio batteries
- ☑ (1) LRM radio battery recharger
- ☑ (1) AC/DC power system
- ☑ (1) IM2300 carry case
- ☑ (1) Cable kit, including a 50 foot BGAN cable (BGAN option only)
- ☑ (1) KG-250X (GFE)

PacStar 441 SRM

Based on the Cisco ESR 5915 routing/ switching module the PacStar 441 SRM has(5) ports:

Connectors

- ✅ (5) Ports total

  - ✅ RJ45 (10/100 Base-T Ethernet, Routed)
  - ✅ RJ45 (10/100 Base-T Ethernet, Routed, PacStar PoE),
  - ✅ RJ45 (10/100 Base-T Ethernet, Switched, PacStar PoE)
- ✅ RS-232 console port
- ✅ Wide range DC input
- ✅ 12 V DC output connector, KG-250X compatible
- ✅ Radio battery and PacStar 400-series power snap-together connector

Physical Specifications

- ✅ Dimensions 5.3" x 7.1" x 1.6"
- ✅ Weight 2.45 lbs.
- ✅ Snap-together connector provides DC pass-through for powering additional PacStar 400-series products
- ✅ Fanless design for quiet operation, higher reliability, and low power draw
- ✅ Operational temperature -20C to 70C
- ✅ MIL-STD 810G

Power Specifications

- ✅ Battery snap-together connectors for 1 or 2 AN/PRC-148 radio batteries; hot swappable with 5+ hours runtime per battery
- ✅ Wide range DC input, 10-36 V DC
- ✅ World-wide AC power input (with adapter cable)
- ✅ Regulated clean 12 V DC output, 20 watts (KG-250X support)
- ✅ PoE power:

  - ✅ Up to 10 watts available PoE power on AC or DC input
  - ✅ On PacStar 4400 power input up to 50 watts available PoE power
- ✅ Power draw:

  - ✅ Nominal (with KG-250X and 1 each Cisco 7911 PoE phone) 25 watts total
  - ✅ Max (including 15 watts of PoE devices attached) 42 watts* total

PacStar 442 SSM-10

The PacStar 442 SSM-1- is based on Cisco ES 2020 routing/switching module with (10) ports

Connectors

☑ (10) Ports Total:

    ☑ (4) RJ45 (10/100 Base-T Ethernet)
    ☑ (4) RJ45 (10/100 Base-T Ethernet with PacStar PoE)
    ☑ (2) RJ45 (10/100/1000 Base-T Ethernet)
    ☑ RS-232 console port
    ☑ Wide range DC input
    ☑ 12V DC output connector, KG-250X compatible
    ☑ Radio battery and PacStar 400-series power snap-together connector

Physical Specifications

☑ Dimensions 5.3" x 7.0" x 1.6"
☑ Weight 2.7 lbs.
☑ Snap together connector provides DC pass-through for powering additional PacStar 400 modules
☑ Fanless design for quiet operation, high reliability and low power draw
☑ Operational temperature -20C to 70C
☑ MIL-STD 810G
☑ MIL-STD 461F

Power Specifications

- ✓ Battery snap-together connectors for 1-2 each AN/PRC-152/148 snap on radio batteries; hot swappable with 5+ hours runtime per battery
- ✓ Wide range DC input, 10-36V
- ✓ World-wide AC power input (with adapter cable)
- ✓ PoE power:

  - ✓ Regulated clean 12V DC output, 20 watts (KG-250X support)
  - ✓ Up to 10 watts available PoE power on AC or DC input
  - ✓ On PacStar 4400 power input up to 50 watts available PoE power
  - ✓ Power draw:
  - ✓ Nominal (with KG-250X and 1 each Cisco 7911 PoE phone) 25 watts total
  - ✓ Max (including 15 watts of PoE devices attached) 42 watts* total

IM2300 Case

Physical Specifications

- ✓ Dimensions 18" x 13" x 6.7"
- ✓ Populated weight 28 lbs.
- ✓ Rigid sheet metal mounting for BGAN 500, BGAN 500 power supply, KG-250X and (2) radio batteries

  - ✓ Equipment can be cabled and operated from mounting points
  - ✓ Equipment can be easily removed and operated partially or completely external to the case
- ✓ Extendable mounting platform for PacStar 441
- ✓ Stows for transport enabling small form factor and pre-wired connection
- ✓ Extends for operation in the field exposing user ports for easy device connection
- ✓ Lifts to access cable storage bay

Power Specifications

- ✓ Integrated system on/off switch with LED indicators for status of power system
- ✓ Wide range DC input, 10 – 36 V DC
- ✓ World-wide AC power input

  - ✓ Provides DC power to operate PacStar 441 modules
  - ✓ PacStar 441 modules provide power for KG-250X via provided cable
  - ✓ AC pass through port enables operation of BGAN
  - ✓ PacStar 441 snap-together design enables radio battery to provide UPS capability

- ☑ Battery operation
  - ☑ Radio battery provides power for (2) PacStar 441 and KG- 250X
    - ☑ Approximately 1.5 hours of operation from a single battery
    - ☑ Dual battery port enables hot-swap of batteries to extend duration
    - ☑ BGAN operates off internal battery

* Reduced operational temp limit when providing maximum PoE power

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