PacStar®
Imagined. Engineered. Delivered.™

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CURTISS-WRIGHT

PacStar 414 Radio Sled

PacStar 414 radio sled adapts a wide variety of tactical / LMR radios to integrate into PacStar 400-Series Smart Chassis-based packaging solutions

Combined with PacStar 400-Series modules and packaging, PacStar 414 completes radio interoperability and network packages that include Radio over IP (RoIP), radio interoperability, cross-banding, talk groups, push-to-talk (PTT) and IP voice while taking advantage of the PacStar 400-Series modularity.

PacStar 414 includes models supporting popular tactical radios such as traditional PTT LMR, MANET, SINCGARS, and new generation multi-channel radios including extensive options for both civilian and military channels and wave forms.

The sled provides snap-in integration for the tactical radios including:

• Physical adaptation of radios into the PacStar 400-Series Smart Chassis

• RJ45 Ethernet or E&M interfaces, exposed to the front of the sled (depending on radio type)

• RS-232 interfaces for radio control, exposed to the front of the sled (depending on radio type)

• Supports PacStar 400-Series standard interconnect enabling modules to be snapped together

PacStar 414 works in conjunction with PacStar 400-Series communications modules serving the tactical communications needs of small teams that deploy worldwide and have secure communication requirements in austere environments. PacStar 414 enables teams from U.S. DoD and Homeland Security to easily and securely connect multiple devices to mission critical communications networks.

Example PacStar 414 TrellisWare Sled

Key Features

• **Secures and provides connections** for a wide variety of tactical / LMR radios

• **Integrated power connectors** providing power from tactical radio batteries, or power input provided by PacStar 400-Series Smart Chassis

• **Continuous runtime** with hot-swappable batteries

• **Snap-together design** enables quick expansion with other PacStar 400-Series products

• **Compact design** for flexible packing and transport

• **Radios can be mounted into the PacStar 414** without tools in the field

Supported Radio Modules

Radio models and accessories have many options, adaptors, connectors and highly variable power needs. Contact PacStar for exact details on supported options

One slot sled for Silvus Technologies StreamCaster SC4200E

- Waveform: MANET Mobile Networked MIMO, single or dual band
- Bands: 16 options available from UHF-I (400-450 NHzz) though 5.8 GHz ISM
- Output Power: up to 4W
- PTT Voice, 100 Mbps Data with FIPS 140-2 Level 2 Crypto
- Available today

One slot sled for TrellisWare Technologies TW-400 CUB, TW-900 TSM Shadow and TW-950 TSM Shadow

- Waveform: MANET TSM
- Bands: L-UHF (225-450 MHz) through L/S Bands (1250-2600 MHz)
- Output Power: Up to 2W
- PTT Voice, 16 Mbps Data, AES 256 Crypto, onboard audio/video encoding
- Allows side connectors/dongles
- Available today

One slot sled for Persistent Systems MPU5

- Waveform: MANET Wave Relay®
- Top Mounted Access, audio only
- Bands: L-Band (1350-1390 MHz) through Upper C-Band (5100-6000 MHz)
- PTT voice, built-in Android
- Output Power: Up to 10W
- Lower C-band model not supported

Two slot sled for L3Harris AN/PRC-163 multi-channel handheld radio

- Multiple modes/waveforms including narrowband and wideband (SRW, TSM-X), MUOS SATCOM, MANET
- Bands: VHF Low (30-88 MHz) to L/S-band (1300-2600 MHz)
- Output power: up to 5W (10W SATCOM)
- PTT voice, up to 16 Mbps Data, Type 1 Suite A/B Crypto, GPS module, ISR Video

Connectors

- RJ45 Ethernet, E&M and RS-232 connectors available, depending on radio type.
- Wide range DC input via PacStar 400-Series standard power interconnectors w/radio battery compatibility

Power Specifications

- Battery snap-together connectors for 1-2 each AN/PRC-152/148 snap on radio batteries; hot swappable with ~runtime dependent on radio model and duty cycle
- Wide range DC input, 10-35V
- Power draw: Supports up to 50 watts power consumption (1 slot sled)

Physical Specifications

- Dimensions 5.67" x 7.1" x 1.7" (1 slot sled)
- Weight range 2 to 2.5 lbs. (1 slot sled)
- Supports PacStar 400-Series standard interconnect enabling modules to be 'snapped' together in the field and share power
- Operational temperature and MIL-STD testing depends on radio type