

# **CPSU**

Central Power Supply Unit

**For Space Applications**



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# Central Power Supply Unit

Lucix provides Central Power Supply Units for use with Lucix LNA, Receiver and/or Converter Multipack Assemblies.

- Converts satellite primary bus voltage to secondary voltages for LNAs, Converters and Receivers.
- Provides power for up to 22 individual converters or up to 60 LNAs simultaneously.
- Provides +V and –V secondary voltages as required by load.

## Qualification

These units are qualified for all major satellite bus electrical and environmental interfaces, including Astrium, IAI, Lockheed A2100, Loral, OHB and Orbital GEOSTar. Bus Voltages from 30V to 100V, and all T&C interfaces are supported.

- Internally Redundant (2:1). No SPFs.
  - Failure of any one component or function within a slice will not result in loss of function
- Two slice unit:
  - Primary & redundant Power Supply Slices
    - Power supply slice outputs are cross-strapped at the Receivers for redundancy.
    - Internal fuse distribution network prevents failures from propagating beyond a single device.
  - Each Power Supply slice
    - Is independently commanded On/Off by redundant Discrete pulse commands
    - Provides redundant On/Off status telemetry

# CPSU MICD

