
# DAC 500
# Network Packet Processor

## Advantages

- Low power consumption
- Flat frequency response
- Adjustable output level
- Selectable output frequency
- Integrated 10 MHz reference
- 1U Rack mount Chassis
- 90 or 265 VAC input
- Network Protocol configurable[1]
- Local Ethernet port
- Configuration Webpage

## Details

The DAC-500 is a High Speed Network Packet Processor with a Digital to Analog RF output. The device integrates a 10G optical network interface with a multicore Digital Signal Processor. The Signal Processor handles the network protocol while reconstructing a real time sampled data stream. The recovered information, timing, and idealized amplitude signal is modulated with 14 bits of precision. The device is equipped with a 10 MHz reference but can easily be connected to the local reference by means of an externally accessible BNC connector. The 14 bit 2.5 GSPS Analog to Digital capable converter offers exceptional signal quality and Spurious Free Dynamic Range.

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# DAC 500
## Network Packet Processor

| | Min | Typical | Max | Units |
|---|---|---|---|---|
| Power Consumption | 21 | 24 | 26 | watts |
| RF Output Bandwidth | 10 | | 900 | MHz |
| Gain Flatness | -2 | | 2 | dB |
| Gain Step Size | 0.5 | 1 | 1.5 | dB |
| Output Power | | -20 | -5 | dBm |
| Output Return Loss | 8 | 10 | | dB |
| Output Impedance | | 50 | | ohms |
| Frequency Step Size | | 1 | | MHz |
| SFDR | | -60 | | dBc |

**Notes:**
SDDS is currently supported on all SW releases, inquire at **cantadasales.com** about additional protocols