

# RADD

## Remote Addressable DANIS/DLS



The Motorola RADD is used in conjunction with the Motorola DAC6000 to provide a robust and scalable, networked access control system. The RADD provides many of the operations involved in maintaining the system and can be placed in strategic points throughout the entire access control network. The RADD supplies real-time repetitive messages such as polling and code downloads to the set-top box population.

The RADD is easily deployed and supports the needs of a networked system. The system scales through the addition of multiple RADDs, each managing similar real-time tasks on a segregated portion of the network.

With the RADD integrated into the DAC control system, reliability is increased. The DAC schedules activities on the RADD for a selectable number of hours allowing the RADD to continue its execution of tasks even if the DAC is running a system backup.

The RADD utilizes the Sun NETRA platform running Solaris OS. The RADD can be monitored remotely using a JAVA enabled console.

*Provides increased scalability, flexibility and stability in an advanced digital interactive system*

### PRODUCT FEATURES:

- Increased scalability and reliability of the MediaCipher™ access control system
- Reduces data throughput required in distributed systems (as low as 56 kbps)
- Supports polling for Telco, RF, and DOCSIS
- Optimally 100,000 set-tops per RADD
- Scalable to 250,000 set-tops per RADD
- Enhanced polling efficiencies
- Detailed diagnostics information via the JAVA™ console
- 1U rack space
- Enhances ALOHA interactive network architecture

### PRODUCT FUNCTIONS:

- Transmits code downloads, network information, entitlement management messages, and system time messages
- Builds in-band and out-of-band (OOB) data streams
- Transmits poll, initialize and refresh commands
- Aggregates polling data and facilitates the data to the billing system
- Delivers code objects encapsulated within DigiCipher® II/ MediaCipher private messages and segmented into MPEG transport packets
- Performs power leveling of digital terminals
- Performs set-top auto discovery across multiple out-of-band frequencies and multiple RADD units



## GENERAL SPECIFICATIONS

### Hardware-SUN NETRA T1 AC200

Processor:	SPARC Platform, 500 MHz UltraSPARC-IIi, single processor
Cache:	16 kb data and 16 kb instruction on chip secondary: 256 kb external with MHz CPU
Main Memory:	512 MB
Expansion Bus PSI Bus:	Single full length PCI slot compliant with PCI specification version 2.1; slot operates at 33 MHz, 32 bits
Internal CD:	644 MB Slimline CD, 24X speed
Internal Disk:	3.5 x 1" disk (18GB); front accessible; support for hot plug

### Software

Operating Environment:	Solaris 8
Networking:	NFS, TCP/IP, UDP/IP, FTP, Telnet

### Interconnections

Network:	Dual Ethernet/Fast Ethernet, STP (10-BaseT and 100-BaseT)
I/O:	40 MB/sec UltraSCSI (SCSI-3) (synchronous)
Serial:	Two RS-232C/RJ-45 serial ports

### Electrical

AC Power:	100 to 240 VAC, 47 to 63 Hz
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### Operating Environment

Ambient Temperature:	5°C to 40°C/41°F to 104°F
Ambient Humidity:	20 to 80% relatively humidity, noncondensing, subject to a maximum absolute humidity of 0.024 kg water/kg dry air
Storage Temperature:	-40°C to 75°C/-40°F to 158°F

### Physical

Chassis:	1.73" H x 17.21" W x 19.19" L
Weight:	20 lbs
Mounting:	Rack sizes fits into 19, 23, 24 inch, 600mm racks (includes mounting kit for 19" racks)

### Other

Uplifted Limited Warranty:	Three years, 24 x 7 (USA only)
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## MULTI-SYSTEM OPERATIONS WITH RADD

