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DIGITAL ADDRESSABLE CONTROL SYSTEM

MOTOROLA

The Motorola Digital Addressable Controller 6000 system (DAC) consists of several advanced components that provide the latest in security and control for flexible digital systems. With an easy-to-use, menu-driven system, the Motorola DAC provides support for a wide variety of addressable control functions including IPPV, Call Ahead PPV, subscriptions and interactive applications. To control these services and functions, the Motorola DAC is fully compatible with most billing systems through the WireLink protocol. The Motorola DAC can also be used to generate many types of detailed and summarized reports to facilitate system management. Support for virtual channels in the digital multiplex and control of encryption devices are also a key part of the Motorola DAC functionality.

Features

➤ Powerful, scalable Intel Pentium III Platform

➤ Multi-tasking, multi-user capable

➤ User-friendly graphical interface

➤ Telephone and RF return capabilities

➤ World's best security

➤ Scalable for multi-headend and multi-billing system control configurations

Functions

➤ Configure headend components

➤ Schedule services and programs

➤ Define channel map assignments

➤ Configure terminal communications, antitaping and code download

➤ Generate reports

➤ Control encryption

➤ Support of interactive network functions

➤ Interface to network management devices

Easy and Reliable Operation

F588

The Motorola DAC hardware platform is based on powerful, dual Intel Pentium III 700 MHz processors, four 18 GB hard drives, 1 GB of RAM, 3.5 floppy drive, 12/24 GB tape drive for database backups, SVGA 17" monitor, printer, 16-port Digiport Server and a remote diagnostic modem. All of these elements support the fast and reliable operation of the powerful relational database system. A UPS system and software is included in the standard configuration to ensure an orderly shutdown of the system during power outages.

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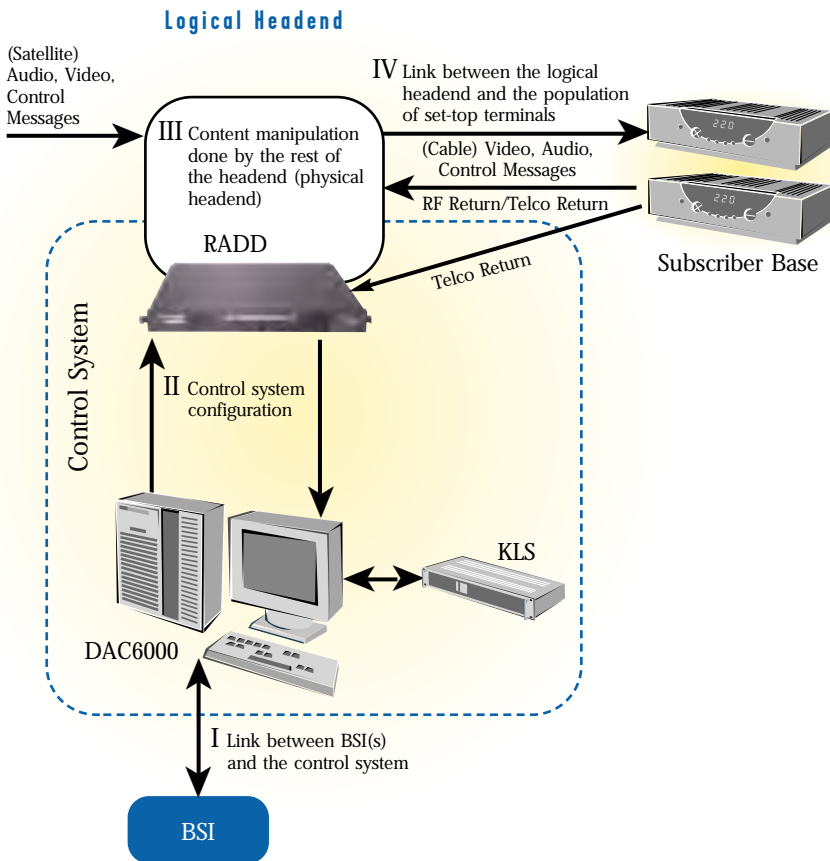
DIGITAL ATSC INTERACTIVE NETWORK SYSTEM

➤ RADD

The Motorola Remote Addressable DANIS/DLS 6000 (RADD) hardware server is a headend unit that provides increased scalability, flexibility and stability for the advanced digital interactive system. Working in conjunction with the Motorola DAC, the RADD provides real-time repetitive messages such as polling and software/firmware downloads to the Motorola set-top population. Two software modules (DANIS and DLS), which were previously located in the Motorola DAC server, are now included in the RADD. This alleviates the Motorola DAC from these operations allowing the Motorola DAC to support larger, more complex cable systems.

➤ KLS1000

The Key List Server provides high level security to the digital headend system. The KLS1000 delivers keys in hierarchical encrypted form to the addressable controller for data encryption management. In addition, the KLS1000 reports back message authentication on request from the DAC6000.

DAC6000 AND RADD SPECIFICATIONS

Logical Headend

(Satellite) Audio, Video, Control Messages

IV Link between the logical headend and the population of set-top terminals

III Content manipulation done by the rest of the headend (physical headend)

(Cable) Video, Audio, Control Messages

RF Return/Telco Return

RADD

Telco Return

Subscriber Base

Control System

II Control system configuration

KLS

DAC6000

I Link between BSI(s) and the control system

BSI

HARDWARE OPERATING ENVIRONMENT

Server Platform	Compaq Pro Liant ML 570
CPU	Dual Intel Pentium III (700 MHz)
Display	SVGA 17" Monitor
Memory	1 GB of RAM
Hard Drive	4x18 GB Ultra 3 SCSI HD
Hard Drive Controller	64 MB Caching SCSI Controller
Disk Drive	1 x 1.44 MB 3.5" Drive
RAID Support	Standard = 1+0 Configuration, Redundant PS + HD
Expansion Kit	16 Port Digiport Server
Surge Protection	APC SU1000
Backup	12/24 GB Tape Drive

SOFTWARE OPERATING ENVIRONMENT

Operating System	SCO OSE (UNIX) 5.0
Database Manager	Sybase System 11
Graphical User Interface	X-Designer

SOFTWARE APPLICATION

Motorola Software Application	DAC6000

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