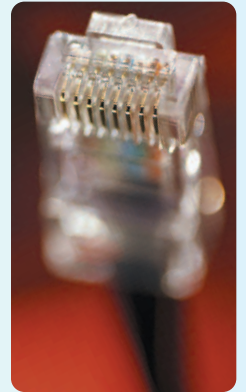


LAN-Based ACS Announcement Control System[®]

Fully Digital Ethernet Audio

At the forefront of innovation, IED announces a new Announcement Control System[®] which includes fully digital and Ethernet audio based components. From the microphone stations to the power amplifiers, the entire ACS system utilizes standard Ethernet.

The IED 500ACS[®] provides dynamic audio routing technology, which assigns, manages, and distributes uncompressed real-time digital audio over a Fast Ethernet network, using technology licensed from Cirrus Logic[®]. By utilizing standard Ethernet components for the transport of multi-channel audio and control data, IED allows facility owners the ability to integrate the 500ACS[®] into their facility network backbone and structured premises cabling system, greatly reducing the cost of conduit and cable.



All New Components and Features

- Ethernet compatible audio distribution
- Utilizes structured premises cabling with standard Ethernet
- Off-the-shelf Ethernet switches and network hardware
- Direct Ethernet interface provided on each of the IED Mic Stations, Power Amp Mainframes, and ACS Mainframes
- IP Addressing for all IED devices
- Compatible with TCP/IP and other protocols
- ACS ToolSet software utilizes standard SQL database structure
- IED Enterprise software has open architecture with standard SQL database structure

The Main Components for the LAN-Based ACS Include:

Titan Series DSP Power Amp System

- 16 X 200W Power Amplifiers
- Backup Amp Switching w/ Hot Standby
- DSP for 16 channels
- Internal Monitor/Test System



IED Titan 6472 Card

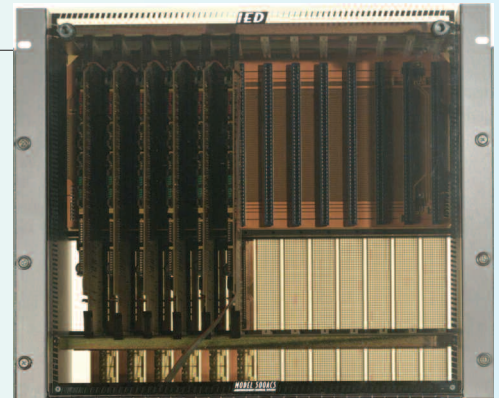


The Titan Series DSP Power Amp System provides digital signal processing and 16 channels of 200 watt amplification in just 6 rack spaces. The T9160 Integrated Power Amp Mainframe includes the Ethernet audio interface to IED's dynamic audio bus structure, and the signal processing to support 16 amplifier channels.

The Titan frame also includes 16 main channels of 200 watt power amplifiers plus two channels of spare hot/standby amplifiers that can be switched-in in the event of an amp card failure. Monitor/Test functions, for full system diagnostics of audio signal, amp cards, and loudspeaker circuits are all internal. No external Monitor/Test wiring required. Additionally, IED 540S Ambient Noise Sensors connect to the T9032NS Noise Sensor Collector, which is a device on the same network.

ACS Mainframe and Cards

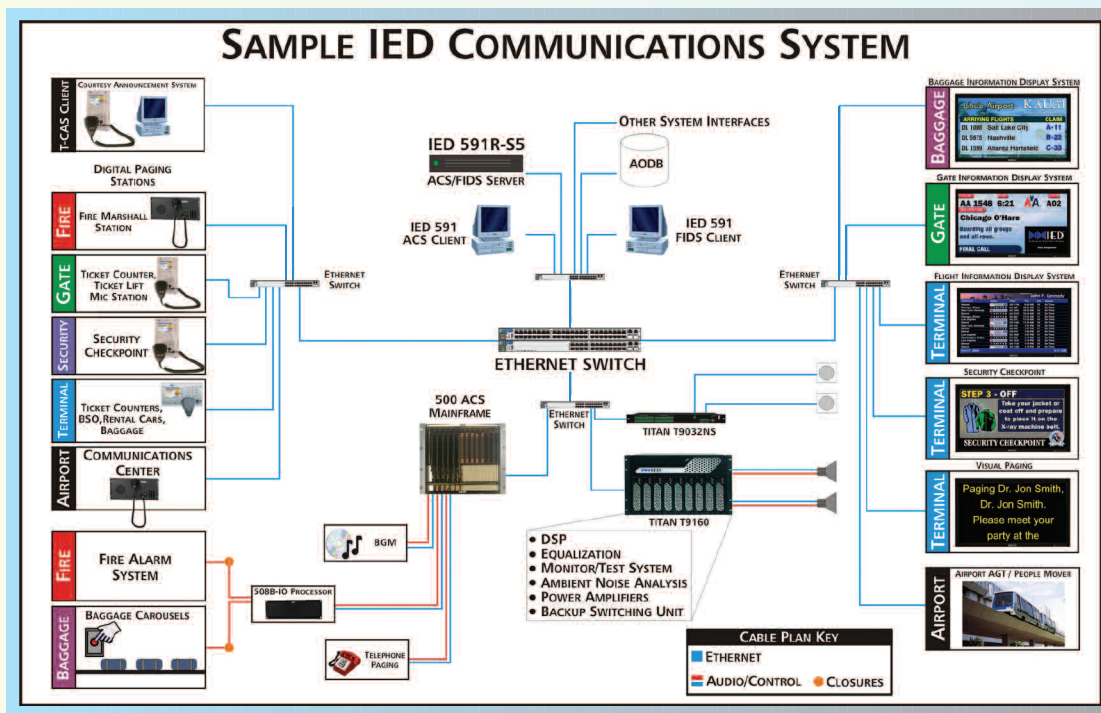
Fully redundant embedded processor cards power the new IED ACS Mainframe. The IED 510CPU can run as a single CPU or as an optional dual/redundant CPU utilizing two 510 CPU cards in a tandem configuration. The IED 510N ACS Audio Network Card provides the Ethernet audio interface for the ACS mainframe. This card dynamically routes and assigns the audio busses among the IED Mic Stations, ACS Mainframe, and Titan Series DSP Amplifiers. The 510N card also provides the Ethernet audio interface between ACS mainframes in multiple buildings.



528 Digital Communication Stations



The IED 528 Series Digital Communication Stations introduce a whole new level of sophistication and flexibility with Ethernet connectivity. With a 4 inch color LCD and programmable soft keys, the 528 is capable of enhanced menu-driven system control beyond just announcements and paging. The Digital Stations are fully compatible to 802.3af standards for power over Ethernet (POE). Station power can be provided directly from the POE switch or via mid-span power supply. Each 528 is a network appliance with its own unique IP address, which makes its configuration and hardware management a snap with the updated IED Enterprise software.



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