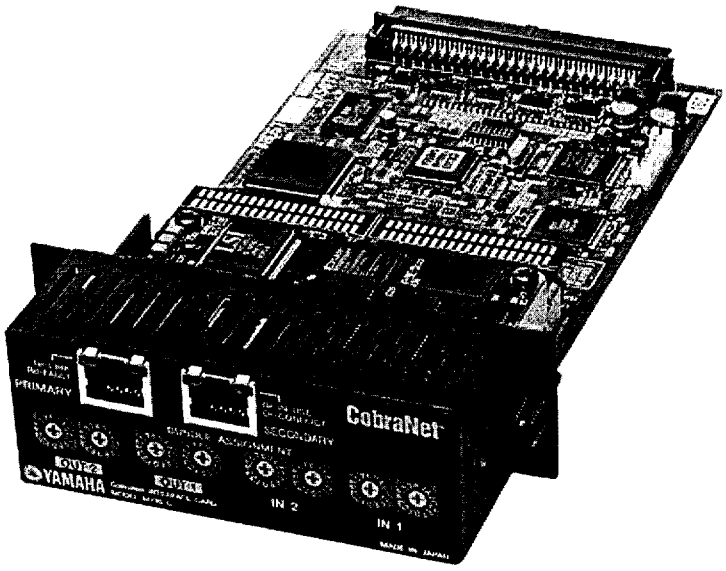
MY16-CII



La nouvelle carte d'extension CobraNet™* MY16-CII permet la transmission et la réception de 32 canaux (16 in/16 out) de signaux audio non compressés. CobraNet™ est un protocole audio temps réel pour la transmission et la réception d'un maximum de 64 canaux via le réseau Fast Ethernet (100 megabits/sec.)
Sa consommation ayant été réduite, il est possible maintenant d'en insérer plusieurs dans les consoles de type DM2000, M7CL, ou la matrice DME64N.

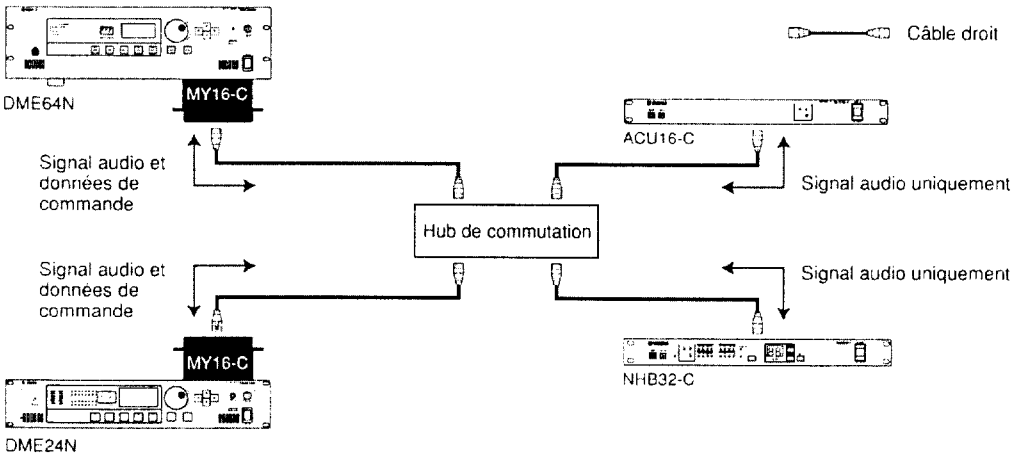
Connectique: RJ45 x 2

Gestion des bundles : par logiciel sous Windows, à télécharger sur le site www.yamahaproaudio.com

CobraNet™ est une marque déposée de Peak Audio (une division de Cirrus Logic, Inc.).

Exemple de réseau CobraNet

Connexion à d'autres périphériques CobraNet

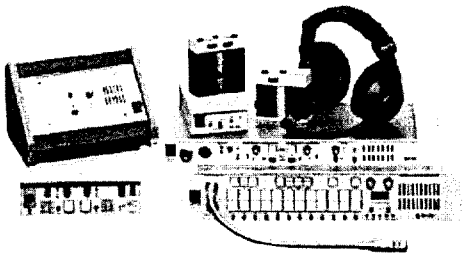


NOTE Schéma incompatible avec les signaux de commande de ACU16-C ou NHB32-C.

Les câbles métalliques de catégorie 5 peuvent être utilisés sur des distances inférieures à 100 mètres, alors qu'il faut recourir aux câbles à fibres optiques pour couvrir des distances allant jusqu'à 2 kilomètres.
Il est recommandé d'utiliser des hubs de commutation sur les réseaux CobraNet. L'utilisation de hubs de répéteur peut entraîner un trafic excessif sur le réseau, réduisant de ce fait son efficacité.

Clear-Com
Intercom Systems

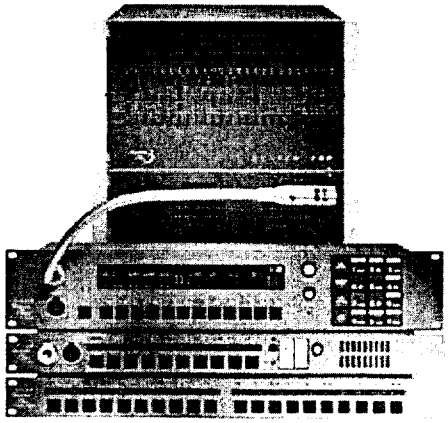
PARTY-LINE SYSTEM OVERVIEW



CC-95 *Professional Single-Ear Headset*
KB-212 *Single-Channel Remote Speaker Station*
PS-22 *Power Supply*
RM-220 *Rack-Mountable Two-Channel Intercom Remote Station*
RS-501 *Single-Channel Beltpack*
WBS-6 *One-Channel Wireless Intercom*
WTR-2 *Wireless Beltpack*

In a party-line system, all of the people on a given channel can talk and listen to each other simultaneously. Each intercom station or beltpack has its own mic preamp and speaker/headphone amplifier circuitry known as a distributed-amplifier system. Headsets or gooseneck mics and integral station speakers are used to talk and listen. A standard two-conductor shielded microphone cable, with 3-pin XLR connectors, is used for each channel of communication. One conductor carries the full-duplex (two-way) audio among the connected intercom stations, one carries the 30 volts DC current that powers those stations, and the shield acts as the ground. Every system/installation requires at least one power supply to provide the necessary DC current.
One or more channels may be used in an installation or to coordinate an event. All the technical staff running a high school play or small community theatre may talk together on one channel, while a larger production might have separate channels for stage manager, spot lights, props, audio, and so on. The director will typically have a multi-channel intercom station allowing communications with people on any or all of the various channels.
Party-line intercom systems are widely used in live theatre, live performance, performance lighting, and auditoriums/stadiums/facilities that host live events. They are also found in small to mid-sized TV/broadcast studios, smaller broadcast production trucks, industrial settings, simulation and medical theatre applications, and so on.

MATRIX SYSTEM OVERVIEW



MicroMatrix *24-Port Digital Matrix Intercom Frame*
ICS-1008 *16-Key Pushbutton Matrix Station*
ICS-1016 *32-Key Pushbutton Matrix Station*
CCI-22 *Two line Full-duplex party line circuits interface*
TEL-14 *Two line telephone interface module*

Digital Matrix Intercoms simplify the design of a communications system by using a small set of hardware components to ease the specification, installation, and operation of the system. Communications features are implemented in software, and are available to every user without the need to physically change the wiring of the system. A wide variety of communications options, from point-to-point to party line to IFB/cue can be accomplished within the same system. Using simple wiring methods, additional users can be added to the system. The matrix itself contains all of the components to switch crosspoints, adjust audio levels, and control interfaces and user stations. Interfacing to external devices such as telephones, radios, cameras, and party lines is easily accomplished.
A single 4-pair cable (or coax/2-wire with the digital matrix card) is all that is required, no matter how many channels of communication are going between a station and the matrix frame. Rack-mount and wall-mount stations offer from 1 to 32 talk/listen keys; expansion key panels and assignment/IFB panels are also available.
Matrices come in a variety of sizes, ranging from 8 x 8 to 200 x 200. User stations offer a variety of features and costs depending on individual user requirements.
A distinct advantage to matrices is the constantly evolving software feature set that lets users add features and functionality to their systems throughout its serviceable life without additional hardware investment.

On AIR Whatever the shooting and footage conditions...

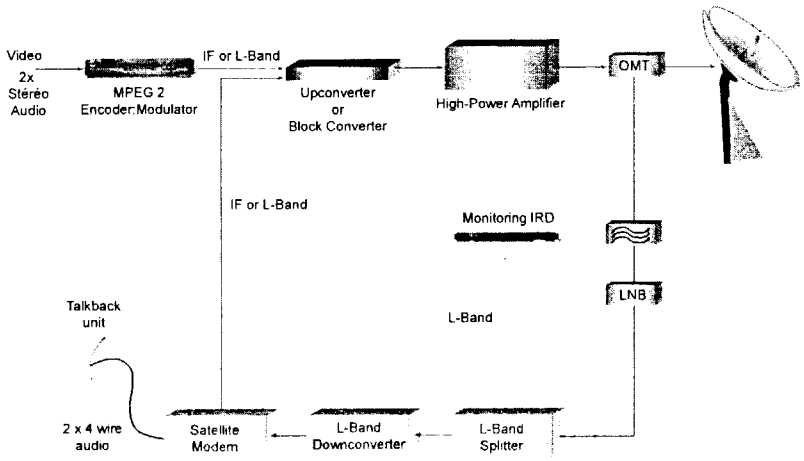
As the twentieth century becomes history, nobody can deny that real-time televisionfootage has a direct impact on our lives. The new millennium has already introduced the era of digital broadcasting, and Digital Satellite Newsgathering (DSNG)gives Broadcasters, Events Providers and journalists, real-time and broadcast-level solutions to cover trouble spots, wherever events occur in the world and what ever the shooting and transmitting conditions. Recent improvements have made efficient compression available and this has resulted in superior picture quality at low bit rates. It has also improved modulation schemes and interfaces which has lead to satellite bandwidth savings, reduced equipment transmission sets and there for power savings. This is beneficial, even essential to users operating fly-away or any tailored OB-Van solutions.
Such occasional contribution link assemblies, over satellite space segment, now offer :

- Greater mobility,
- Emergency situation requirements,
- Interoperability with other vendors' equipment,
- Specific transmission requirements,
- Space efficiency,
- Multiple channel capabilities,
- Secured transmissions,
- Overall cost effectiveness

Creater Mobility ...

... Without Affecting Performances.

As the very heart of a DSNG system, emphasis has to be placed on the compression unit (the encoder). Audio encoding of sometimes more than two stereo pairs has to accompany video encoding.
The market is crying out for compact systems for portable units or saving space environments such as in OB Vans. A 2 RU high chassis represents a convenient solution while at the same time benefiting from improvements in leading edge technology to incorporate internal modulation with full transmitting capabilities, either in I/F or L-Band. Within a 3 RU bulk, including satellite return path monitoring, the desired result has been achieved. Various overall packages help to preserve high, original equipment reliability there fore guaranteeing a stable performance throughout difficult operating conditions



DSNG DBE 4110 Features

ENCODING FEATURES

Video Input

- PAL/NTSC, High Quality with SYNC mode
- Accepts degraded video input signals
- SECAM (optional)
- SDI 4:2:2 270 Mbps (625/525)
- Composite acc. to ITU-R 470-2 rep 624-4
- S/N: > 61 dB (ramp filtered weighted)
- Frequency response: 0.15 - 5.7 MHz(PAL)

Pre-processing

- Noise reduction: Adaptive pre-filtering
- Sub-sampling: H 720 to 352 pxls
  V 576 (50Hz) 480 (60Hz)
- Motion Estimation 127/256 pixels - half pixel resolution
- Scene Cut Detection
- Test pattern generation

Compression

- 420 Main Profile @ Main Level
- 422 Professional Profile @ Main Level(option)
- Bit rates: 0.5 to 15 or 50Mbps
- Adaptive GOP
- Low delay modes (down to 100ms end-to-end)

Audio Input

- 2 stereo analogue - or 4 mono - channels 18bits, 48kHz sampling
- SDI embedded
- 2 Digital AES / EBU (option)
- Modes: Stereo, Joint Stereo, Mono, Dual Mono
- MPEG1 Layer II, 64 to 384 kbps
- Test tone generation

VBI (optional)

- CEEFAX B, WSS, VPS, AFD, D/VITC, Closed Captioning, transparent lines
- DVB subtitling insertion

Auxiliary Data

- Ethernet 10BaseT (up to 2 Mbps)
- RS232 asynchronous up to 38400bauds (optional)
- ASI Transport stream input up to54Mbps (optional)

OUTPUTS

Transport Stream

- 3 DVB ASI O/P ports - Data Burst Mode
- Bit rate: 1 to 54 Mbps
- Re-multiplexing capability
- Signalling: compliance to SI/PSI generation Per, EN 300 468 Standard incl. TSDT

Modulated Output (option)

- QPSK, 8PSK, 16QAM acc. To EN 300 421 & EN 301 210 Standards
- IF: 50 - 180MHz, 125kHz step size
- L-Band: 950 - 1750MHz, 1kHz step size (IESS 308 compliant)
- Local Oscillator Output at 100MHz
- I/P rate: up to 28Mbps
- O/P: to 16 Msps
- Adjustable levels
- Roll-Off: 35% and 26%

Scrambling (optional)

- DVB DSNG CA BISS modes 1 &Encrypted

CONTROL AND MONITORING

- Exhaustive MMI through encoder Front Panel
- 11 Pre-Set configurations
- Alarm monitoring, Voltage free contacts (optional)
- WIN NT® PC-based applet (Ethernet10BaseT)

UPGRADE

- Ethernet 10BaseT
- Licensed SW Keys for Option setting

GENERAL

- 484 (19") x 600 x 88 (2RU) mm
- Weight: 15kg max.
- Power: AC 100 / 230V, Cons ump.: 150W max.
- Temp.: Op. 0°to 45°C, Storage -10°to+70°C
- Certification: CE and UL

OPTIONS

- Re-Multiplexing for Multi-Video Operation
- Control and Command of external modulator
- 4 additional stereo audio (AES/EBU, SDI embedded or Dolby pass trough)

For more information, contact:

NEXTREAM
Benoît LAURENT
Product Marketing
benoit.laurent@thomson.net

DANS CE CADRE

NE RIEN ÉCRIRE

Académie : Session :

Examen ou Concours Série* :

Spécialité/option* : Repère de l'épreuve :

Épreuve/sous-épreuve :

NOM :
(en majuscules, suivi s'il y a lieu, du nom d'épouse)

Prénoms :

Né(e) le :

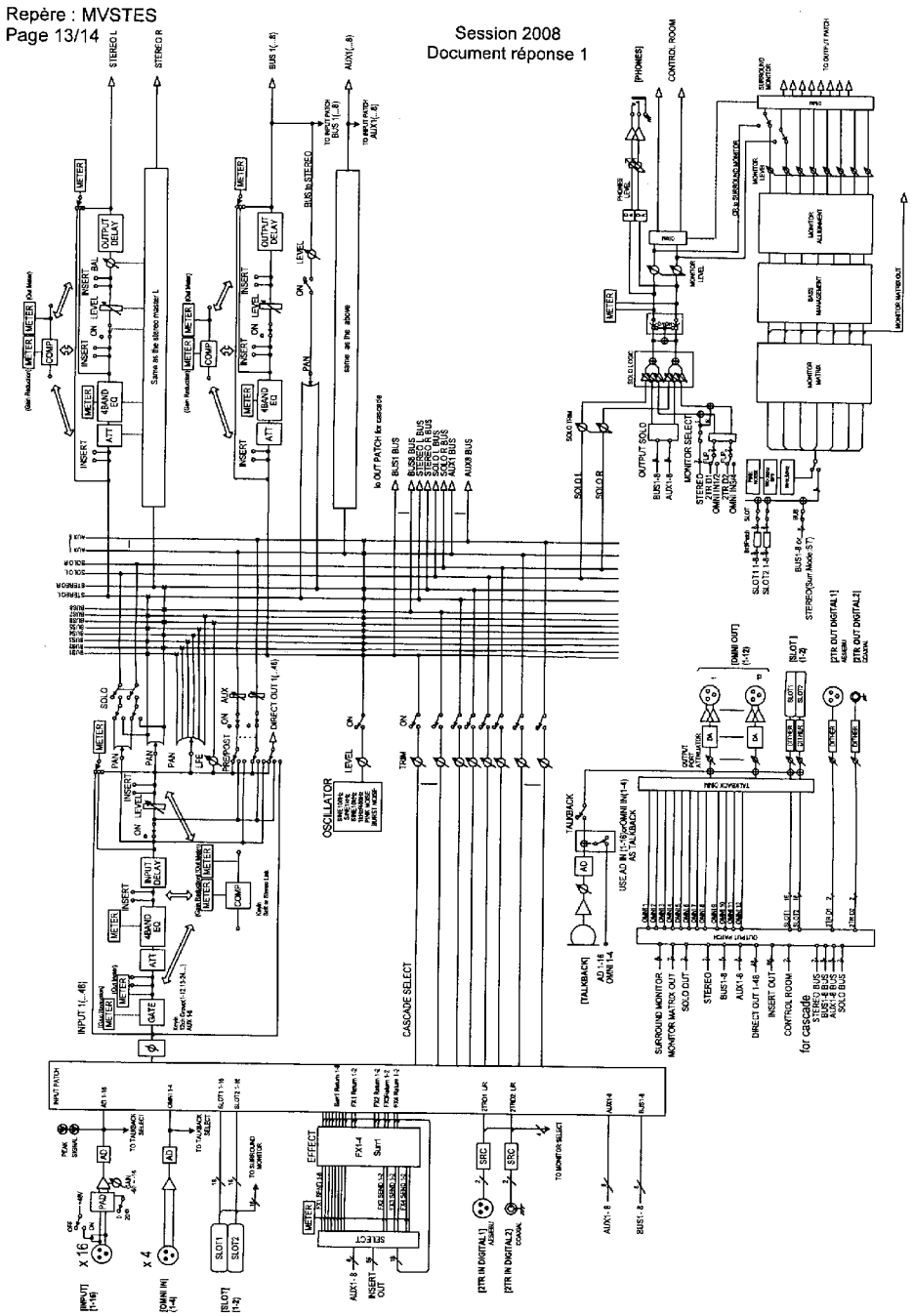
N° du candidat

(le numéro est celui qui figure sur la convocation ou la liste d'appel)

* Uniquement s'il sagit d'un examen.

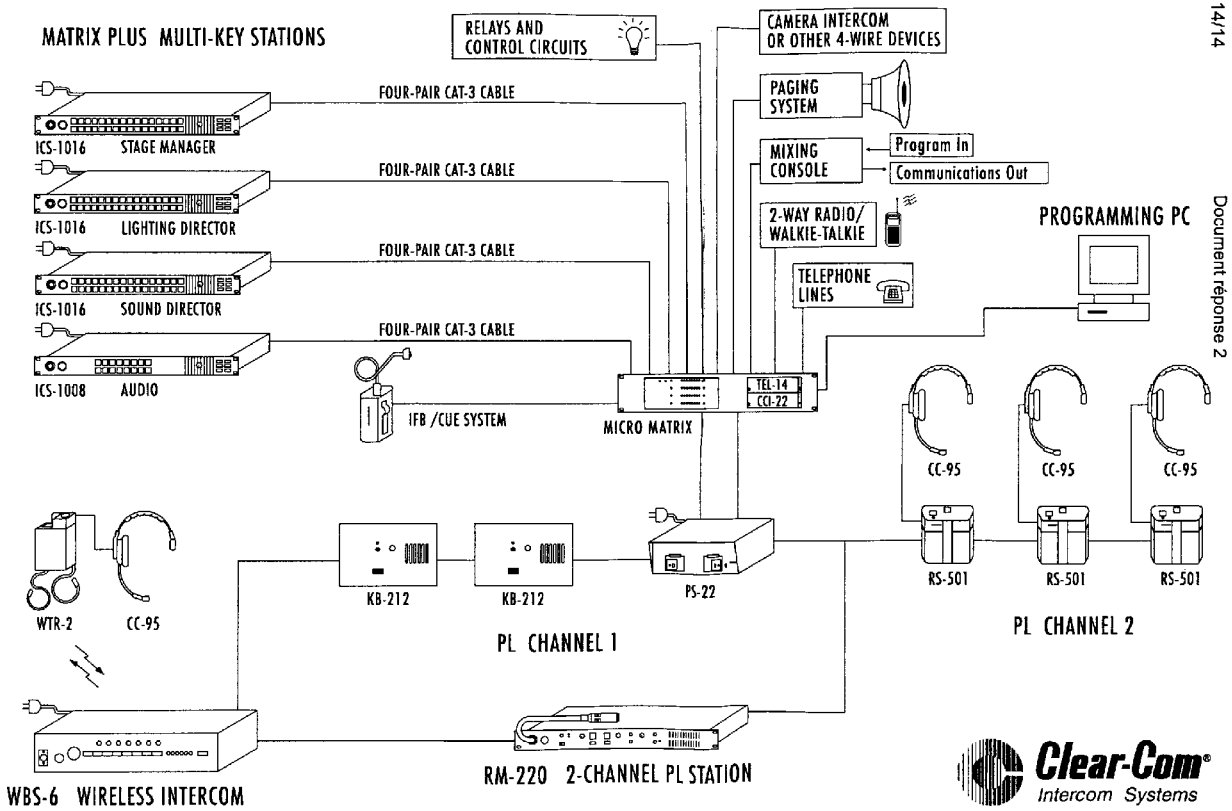
Session 2008
Document réponse 1

DM1000 Schéma logique



MICRO MATRIX DIGITAL INTERCOM SYSTEMS

INTERCONNECTION POSSIBILITIES



NE RIEN ÉCRIRE DANS CE CADRE

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