Option 4   **Ethernet IP System**

Note	Requirements / Criterias	Application In :
A more versatile system for large deployments to speakers or sub racks located distance away from central system and to link via fiber / network. A cost saving method as compared to conventional type of laying cables to control multiple zones or system connectivity. Allow two way communications between different points. IP system shall also allow easier system expansion, be it additional speakers or microphone points as well as adding new racks for different building and be controlled via central system.	Medium to high cost Zone up to 250 zones Connectivity via LAN / Fiber networks System with multiple buildings Single of multiple paging stations with priority Auto voice announcements facility Multi audio transmission ; uninterrupted Allow wireless transmission Comply to Fire Codes - Interface with fire alarm panel - EVAC voice messaging - Emergency paging override - Amplifier changeover - Speaker line monitoring (option at some locality) - Back up power supply	Mixed development complex Universities, colleges, schools Hotels and resorts Large factories, Parks, security poles for distress signals Transportation hubs ie. Bus, Rail, Airports Army camps

Equipment List

Item	Equipment Model					Selection Note
Paging microphone	iPD1280					Required or use PD series with iPX5151
Emergency paging microphone	iEP1200	iEP1202				Required : Select type
Music Source	CD1001	MP1020				Select type required : Optional
Weekly programme timer	PT1801					Optional : for scheduling
EVAC audio	MR1301	CM1400				Required : MR1301 is preferred
Fire alarm interface	FI6000					Optional
Network controller	iPX5101					Required : 1 unit for entire connected system
Network Music server	iPX5200					Optional : for sending BGM to clients
Network BGM / Music client	iPX5155					Required : for decoding data and audio to TD and
Network Paging client	iPX5151					Optional ; for interfacing non IP paging mic / audio
Network Music client	iPX5300					Optional ; for dedicated music reception
Network Communication box	iPX5500					Optional ; for data from device to system (PMX Lan)
Network tranceiver	iPX5400					Optional ; for sending data/audio thru network
Software	PMX LAN					Optional
Zone decoder / selector	TD6080	TD6400				Required : for zone decoding / selection
Power amplifier	PA Series	QP Series	DP Series			Select type required ; subjected to system
Network amplifier terminal	iPA5000					Select power rating ; subjected to system
Amplifier changeover	AX3800					Required : for amp fault changeover
Amplifier monitor panel	AM4120					Optional : for monitoring audio output from amplifiers
Line monitoring	LS4808	LS4816				Select type required ; subjected to system
24V regulated power supply	PS9400					Required
Battery charger	BC9740					Required or use UPS
Battery bank						Required (if UPS not used)
Volume controller	VC7000	VC8000	VR7600			Select according to power requirement and model
Local patch panel	VP7501					Optional according to system requirement

Speaker types according to choice

Drawing Descriptions	Drawing Reference	Application Example
Centralised IP system	pa - ip system 1	Office, factories, hypermarket, schools
Decentralised linked IP system	pa - ip system 2	Mixed developments, office towers, hospitals
Wireless system	pa - ip system 3	Parks , security poles