

TOA IP-1000 Series IP Network Audio Management System User Guide

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TOA IP-1000 Series IP Network Audio Management System



Description

- With all equipment connectable to an ordinary IP network, IP-1000 series, the true digital matrix system is expandable to any locations with network access.
- The name "IP-1000" is used to highlight its extensive capacity for supporting 1000 IP address in one single system. The vast capacity and flexibility allows easy system expansion beyond conventional system coverage.
- What is more, the single management & operation software allows user to make instant broadcast and scheduled announcement through one single computer work station which covers most wanted function in school applications.

System Features

- No dedicated server: Any computer installed with the IP-1000S System Management Software becomes the server and also a workstation of the system. Both setting and operation can be performed in one single computer.
- Pre-record messages and real time recording provides flexibility in making announcement.
- · Allow interfacing with fire alarm system.
- IP powered speaker can broadcast messages from both network and local input with priority adjustable in the software
- IP-1000AF Audio Interface Unit is compact in size and can be mounted to different surfaces with high flexibility

Maximum System Capacity

Able to link with 1000 IP Addresses No limitation on audio channel

System Management Software



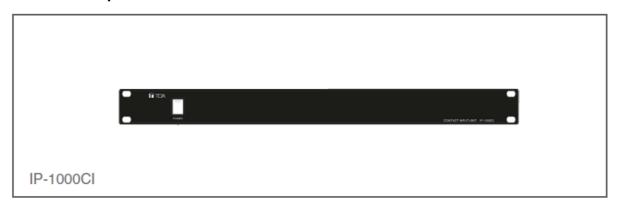
CPU	Intel Core i3-4150 or above	
Motherboard	Intel 97 series chipset or above, sound card,	
	1000Mbps network adaptor	
RAM	DDR3 4G	
Display Card	Dedicated display card with 16G or above.	
	With 2 or above video output. Provide VGA, DVI, etc.,	
	general output terminal	
Hard disk	SATA2 7200 rpm or above. 500GB or above	
Power Source	Power Source: above 300W	
OS	OS: Windows 7 / 8 /10 Professional	

IP-1000S1-EA



CPU	Intel Core i5 Series or above	
Motherboard	Intel 97 series chipset or above, sound card,	
	100/1000Mbps network adaptor	
RAM	DDR3 4G or above	
Display Card	Dedicated display card with 16G or above.	
	With 2 or above video output. Provide VGA, DVI, etc.,	
	general output terminal	
Hard disk	SATA2 7200 rpm or above. 500GB or above	
OS	Windows 7 or above, Recommend Windows10	
	Does not support Windows XP	
Optional	SIP Device License IP-1K1SL001	

Network Control Input Unit



Specifications	IP-1000CI		
PowerSource	220 V AC, 50Hz		
Functional Unit Terminal	Alarm output terminal, alarm input terminal, power input terminal, data upgrade terminal, network input terminal		
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP Protocol		
Network Chip Rate	10/100Mbps self-adaption		
Color	Black		
Dimension	483(W) x 32(H) x 259(D) mm		
Weight	2.9 kg		
Accessories	4P connecting terminals (4pcs), 5P connecting terminals (8pcs), power line (3*1.0mm2/1.5m) (1pc)		

IP-1000CI

Receive alarm signal from fire centre and trigger to broadcast warning announcement.

Compact Audio Interface Unit



Specifications	IP-1000AF
Power Source	DC 24V
Current Consumption	Below 85mA
Audio Input	1V rms (Max: 2V rms), unbalanced 10KΩ
Audio Output	1V rms, unbalanced 600Ω
	LINE IN (Sampling Frequency: 22k): 20Hz -10kHz
Frequency Response	LINE OUT (MP3/Sampling Frequency: 44k): 40Hz -15kHz
Control Contact Input	Open circuit voltage: 24V DC; short circuit current: ≤5mA
Relay	
Normally Closed Contact (NC) Common Contact (COM) Normally Open Contact (NO)	Withstand voltage ≤30V DC, control current ≤500mA Withstand voltage ≤30V DC, control current ≤500mA Withstand voltage ≤30V DC, control current ≤500mA
Network I/F	10 BASE-T/100 BASE-TX, auto negotiation
Network Protocol	UDP, ARP, ICMP, IGMP
Operation Temperature	0°C to +40°C
Operation Humidity	Less than 90% RH (no condensation)
Dimension (W) x (H) x (D)	91 x42 x106 mm
	5P terminal blocks x 1, 4P terminal blocks x1,
Accessory	Plastic foot (10mm*3mm) x4

IP-1000AF

- Can be mounted to different surfaces
- Able to act as both input and output units in the network system
- The device can also receive messages from server and other devices for initiating broadcast.
- Support using browser to change the device setting

Network Module



Specifications	IP-100XI
Power Source	DC 24V
Current Consumption	Below 85mA
Frequency Response	LINE OUT (MP3/ sampling freqency: 44k): 40Hz -15kHz
Amplifier Audio Signal Output	Range: 1V rms, unbalanced 600Ω
Amplifier Muting Control Output	High impedance, max. sink current: 10mA,
Tanpanor maning control catpair	withstand voltage : 24V DC
Amplifier Protection Detection Input	low level, activated, open-circuit voltage: 3.3V
Amplifier Fault Detection Input	low level, activated, open-circuit voltage: 3.3V
Network I/F	10 BASE-T/ 100 BASE-TX, auto negotiation
Network Protocol	UDP, ARP, CMP, IGMP
Operation Temperature	0°C to +40°C
Operation Humidity	Less than 90% RH (no condensation)
Dimension	78 (W) x 35 (H) x 81(D) mm
Weight	0.1 kg

IP-100XI Allow the amplifier to extent the network function

Compact Amplifier



SA-130

- Light weight, compact in size and high efficient design
- Able to extend network function by using the network module IP-100XI
- 100V override for easy interface with existing system
- Ideal for simple, small application

Specifications	SA-130	
Power Supply	DC 24V (Adapter 2.09A)	
Output Power	30W (RMS), 100V (333Ω)	
Current Consumption	Rated 1.8A or below (Standby mode: 0.1A or below)	
Audio Input	Mic x1 (-60dB, Φ6.3 PHONE JACK, Phantom power ON/OFF switch and volume co trol) AUX 1 – 2 (-10dB, Φ3.5 MINI JACK, with volume control) AUX 3 (-10dB, 3 RCA JACK, with volume control)	
Audio Output	LINE OUT x1 (-10dB, Φ3.5 MINI JACK, Speaker output 100V)	
Priority	EXT IN > IP > MIC/AUX	
	MIN. → Start broadcast when input signal is greater than 10V	
EXT IN Sensitivity	MAX. → Start broadcast when input signal is greater than 30V	
Signal to Noise Ratio	Above 76dB	
Total Harmonic Distortio	1% or below	
Frequency Response	50Hz – 15k Hz (±3dB)	
IP-100XI Module	RJ45 connector (Power supply is supplied internally by SA-130) (Optional)	
LED Indicator	Main Power Supply	
On/ Off Switch	Main Power Supply	
Operating Temperature	0°C – 40°C	
Operating Humidity	10 – 90%	
Finish	Black paint, aluminum panel	
Dimensions	210(W)*44(H)*152(D)mm	
Weight	1.4kg	
Accessories	User Manual x1, European Terminal 2P x1, Adapter x1, Power Cord x1, Fittings x2, S crew x4	

Compact Amplifier



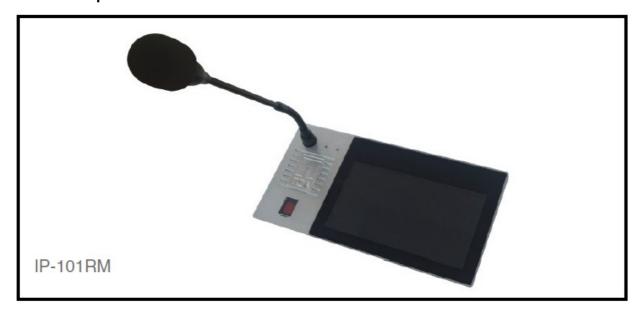
- Can be placed on desktop, wall-mounted or rack-mount-ed occupying 1 unit space
- input and output terminals use removable plug which allow easy wire connection

AX-0240

- · Light weight, compact and high efficient design
- Able to extent network function by applying the amplifier network module IP-100XI
- Has protection circuit that protects the amplifier from short circuit, overload or abnormal temperature rise by breaking the external connection
- · Protection output circuit allows operators to monitor the equipment status easily
- Uses balanced connection input

Power Source 220 V AC, 50Hz Amplification System Class D Frower Consumption September 296W(rated output) MIC IN: -60dB* 2.2kQ, electronically-balanced, removable terminal block (3 pins) LINE IN: -10dB* 2.2kQ, electronically-balanced, removable terminal block (3 pins) LINE IN: -10dB* 2.2kQ, electronically-balanced, removable terminal block (3 pins) Audio Output SPEAKER OUT: 240W (100V/ 42Q), removable terminal block (4P) LINE OUT: 0dB*, 10kQ, electronically-balanced, removable terminal block (3P) Fault Output Octoopter output, puncture: DC 35V, control current: below 50mA, removable terminal blo ok (3 pins) 50Hz - 20kHz ±3dB (Line) Total Harmonic Dis 1% (LINE:1kHz,1/3 rated output,with audio filter: audio precision AUX-0025 and LPF 20kHz filter) MIC: Above 60dB (by audio filter: audio precision AUX-0025 and A-weighted) LINE: Above 80dB (by audio filter: audio precision AUX-0025 and A-weighted) Control MIC gain control, LINE gain control Indicator Power LED (green) x 1, Signal LED (green) x 1, Peak LED (red) x 1, Protect output LED (red) x 1 Cooling Forced air cooling Operation Temper ature -10°C to +40°C Operation Humidit Pelow 90% RH (no condensation) Finish Surface-treated steel plate, black, paint Dimensions (W x H x D) Meight 2.41kg Accessories Removable terminal block(3 pins) x 4 ; removable terminal block(4 pins) x 1 ; M3x4 screws for mounting brackets x 12 Option Rack mount bracket MB-15B-BK, MB-15B-J, MB-15B, J/A-706, IP-100XI	Specifications	AX-0240	
System Class D Power Consumption 61W (According to EN62368-1 Standard) 296W(rated output) 296W(rated output) Audio Input MIC IN: -60dB* 2.2kΩ, electronically-balanced, removable terminal block (3 pins) Audio Output SPEAKER OUT: 240W (100V/42Ω), removable terminal block (4P) LINE OUT: 0dB*, 10kΩ, electronically-balanced, removable terminal block (3P) Fault Output Octocopter output, puncture: DC 35V, control current: below 50mA, removable terminal block (3 pins) Frequency Respon se 50Hz – 20kHz ±3dB (Line) Total Harmonic Dis tortion 1% (LINE:1kHz,1/3 rated output, with audio filter: audio precision AUX-0025 and LPF 20kHz filter) S/N Ratio MIC: Above 60dB (by audio filter: audio precision AUX-0025 and A-weighted) LINE: Above 80dB (by audio filter: audio precision AUX-0025 and A-weighted) Control MIC gain control, LINE gain control Indicator Power LED (green) x 1, Signal LED (green) x 1, Peak LED (red) x 1, Protect output LED (red) x 1 Cooling Forced air cooling Operation Temper ature -10°C to +40°C Operation Humidit yellow 90% RH (no condensation) Ellow 90% RH (no condensation) Finish Surface-treated steel plate, black, paint Dimensions (W	Power Source	220 V AC, 50Hz	
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S/N Ratio LINE: Above 80dB (by audio filter: audio precision AUX-0025 and A-weighted) Control MIC gain control, LINE gain control Indicator Power LED (green) x 1, Signal LED (green) x 1, Peak LED (red) x 1, Protect output LED (red) x 1 Cooling Forced air cooling Operation Temper ature Operation Humidit y Below 90% RH (no condensation) Finish Surface-treated steel plate, black, paint Dimensions (Wx H x D) Weight 2.41kg Accessories Removable terminal block(3 pins) x 4; removable terminal block(4 pins) x 1; M3x4 screws for mounting brackets x 12			
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Cooling Forced air cooling Operation Temper ature -10°C to +40°C Operation Humidit y Below 90% RH (no condensation) Finish Surface-treated steel plate, black, paint Dimensions (W x H x D) Weight 2.41kg Removable terminal block(3 pins) x 4 ; removable terminal block(4 pins) x 1 ; M3x4 screws for mounting brackets x 12	Control	MIC gain control, LINE gain control	
Operation Temper ature	Indicator		
Operation Humidit y Below 90% RH (no condensation) Finish Surface-treated steel plate, black, paint Dimensions (W x H x D) Weight 2.41kg Removable terminal block(3 pins) x 4 ; removable terminal block(4 pins) x 1 ; M3x4 screws for mounting brackets x 12	Cooling	Forced air cooling	
Finish Surface-treated steel plate, black, paint Dimensions (W x H x D) Weight 2.41kg Removable terminal block(3 pins) x 4 ; removable terminal block(4 pins) x 1 ; M3x4 screws for mounting brackets x 12	'	-10°C to +40°C	
Dimensions (W x H x D) 210 x 50 x 290 mm Weight 2.41kg Removable terminal block(3 pins) x 4 ; removable terminal block(4 pins) x 1 ; M3x4 screws for mounting brackets x 12	· ·	Below 90% RH (no condensation)	
H x D) Weight 2.41kg Removable terminal block(3 pins) x 4 ; removable terminal block(4 pins) x 1 ; M3x4 screws for mounting brackets x 12	Finish	Surface-treated steel plate, black, paint	
Accessories Removable terminal block(3 pins) x 4 ; removable terminal block(4 pins) x 1 ; M3x4 screws for mounting brackets x 12	,	210 x 50 x 290 mm	
for mounting brackets x 12	Weight	2.41kg	
Option Rack mount bracket MB-15B-BK, MB-15B-J, MB-15B, YA-706, IP-100XI	Accessories		
	Option	Rack mount bracket MB-15B-BK, MB-15B-J, MB-15B, YA-706, IP-100XI	

IP Remote Microphone



IP-101RM

- Network Touchscreen Control
- Trigger paging, message playback
- Monitoring function
- Intercom function with other IP-101RM

Specifications	IP-101RM	
Power Supply	DC 24V / 1A	
Power Consumption	£20W	
Graphic Display	7.0 inch touch screen, resolution 800 x 480 pixels	
Audio Input	1 Vrms, unbalance, 10kW	
Audio Output	Unbalance, output power 10mW, 32W	
Monitor Speaker	8W/3W	
Frequency Response	20Hz – 16kHz	
Signal to Noise Ratio	Above 90dB	
Network I/F	10BASE-T/100BASE-TX, auto-negotiation	
Network Protocol	ARP, UDP, TCP/IP, ICMP, IGMP, SIP	
Operating Temperature	0°C – 40°C	
Operating Humidity	Less than 90% RH (no condensation)	
Dimensions	254(W)*32.5(H)*134(D)mm	
	Adapter(DC24V/1A) x1, Terminal (3.5 – 5P) x1,	
Accessories	Microphone Pole (IM-320) x1	



- RM-110: Extension unit with 10 keys with similar functions as IP-100RM remote microphone.
- Up to 9 sets of RM-110 connected can be linked. Expandable to up to 105 function keys.

IP-100RM / RM-110

- IR-100RM is a network remote microphone. It can be used for general broadcast and emergency broadcast.
- The microphone can received messages from server or other devices. It can also distribute these messages to selected zone or all zones.
- Status LED next to every button allows operator to acquire status of each zone and other operation status at one glimpse.
- Can support Max. 1000 zoning

Specifications	IP-100RM	RM-110
Power Source	DC24V	_
Current Consumption	Below 200mA (single IP-100RM), below 500mA (connected with 9 pieces of RM-110)	Less than 20mA (IP-100RM D C power input)
Audio Input	1V rms (Max: 2V rms), 10kΩ electronically balanced gooseneck microphone	_
Audio Output	$1V$ rms, unbalance 600Ω or unbalanced, 11.25mW, 32Ω	_
Frequency Response LI NE IN		
LINE OUT (Network bro adcast)	(Sampling rate: 22k), 20Hz -10kHz	_
SPEAKER OUT(Network broadcast)	(MP3 / sampling rate: 44k), 40Hz – 20kHz (MP3/ sampling rate: 44k), 20Hz – 20kHz	
Control Input	Optic coupler shortage input, open voltage DC 5V, maximum shortage current ≤5mA	_
Built-in Monitor Speaker	Maximum output 1W	_
Volume control	Microphone volume control, monitor speaker volum e control	_
Number of Function Key s	15 on single equipment. Expandable to 105 with 9 s ets of RM-210 connected.	10
Maximum Zoning Support	1000	_
Network I/F	10 BASE-T / 100 BASE-TX Auto Negotiation	_
Network Protocol	UDP, ARP, ICMP, HTTP, IGMP	-
Operation Temperature	0°C to +40°C	0 °C to +40°C
Operation Humidity	Less than 90% RH (no condensation)	Less than 90% RH (no conden sation)
Finish	ABS resin, bluish gray	ABS resin, bluish gray (PANTO NE 538 or equivalent)
Dimensions (W x H x D)	190 x 76.5 x 215 mm (not included the gooseneck microphone)	110 x 76.5 x 215 mm
Weight	0.8kg	0.34kg
Accessory	_	Connection cable x1, Joint bra cket A x2, Joint bracket B x1, Screw for Joint br
		acket x12

IP-Powered Speaker

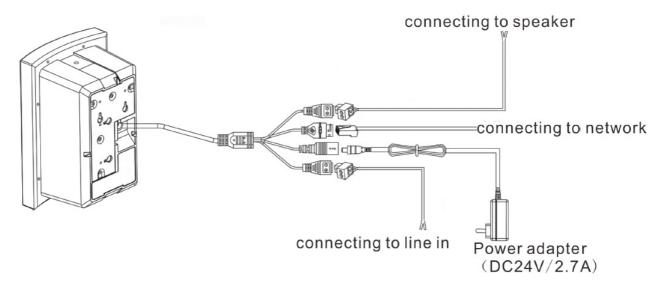






BS-P678IP1/E / BS-P1030BIP1/WIP1 / TZ-P406BIP1/WIP1

- Can override and incorporate with local PA system without affect the central broadcast.
- Local line input of IP powered speaker allow the speaker to broadcast messages from both network and local input with different priorities, ideal for classroom application.



- With built-in amplifier, allow the speaker to chain with one more ordinary speaker to provide larger coverage
- Allow easy system expansion without difficult wiring and installation work.
- 3 model of IP-powered speakers fulfil different usage.

Specificatio ns	BS-P678IP1	BS- P678E	BS-P1030BIP1/WIP1	TZ-P406BIP1/WIP1
Speaker U	6"(16cm) double	cone type	5"(12cm)dynamic cone-type, dome tweet er	4"(10cm) doubt cone type ×4, waterproof IP-65
Power Sou rce	DC 24V / 1A	_	DC-24V / 2.7A	DC24 / 2.7A
Power Con sumption	1.85 W	_	(Static Power): 1.85W	1.85 W

Impedance	8Ω 10W		8Ω 30W	4Ω 40W
Sensitivity	94 dB		90dB (1W, 1m)	92 dB (1W, 1m)
Frequency Response	150Hz – 20kHz		80Hz – 20kHz	150Hz -13kHz
Input Termi	European standard 2 pir	ns	European standard 2 pi	European standard 2 Pins
Network In put	1V rms (Max: 2V rms), unbalanced 10kΩ	_	1Vrms (Max: 2Vrrms), Unbalanced, 10kΩ	1Vrms (Max:2Vrms), Unbalanc ed, 10kΩ
Network I/F	10 BASE-T/100BASE-TX, Auto negotiation	_	10BASE-T/100BASE,A uto Negotiation	10BASE-T/100BASE-TX, Auto Negotiation
Network Pr	UDP, ARP, HTTP, ICM P, IGMP	_	UDP, ARP, HTTP, ICM P, IGMP	UDP, ARP, HTTP, ICMP, IGMP
Operation Temperatur e	-20°C~+40°C		0°C to +40°C	-20°C to +40°C
Operation Humidity	Below 90% RH (no condensation)		Below 90% RH (no con densation)	Below 90% RH (no condensation)
Finish	Cainet: Particle board, off-white Grille: Surface-treated steel plate n et, off-white		Enclosure: ABS resin, black / white color	Enclosure: HIPS, black/white p aint Punched Net: Surface-tread st eel plate, black/white paint Speaker Bracket: Aluminium d ie-cast, black paint
Dimensions	250 (W) × 190 (H) × 110 (D) mm		196 (W) x 290 (H) x 15 0 (D) mm	135 (W) x 498 (H) x 128 (D) m
Accessory	Speaker mounting scre w M4*35 x2, 2P termin al blocks x2	_	Bracket x1, Bracket mo unting screw x2, Brack et mounting washer x2, 2P terminal blocks x2	Speaker bracket x1, Joint bracket x1, Wall bracket x1, Fixing bolt M5*60 x1, Hexagon bolt M6*12 (with plain washer and spring washer) x2, Hexagon M8*15 x1, 2P terminal block x2





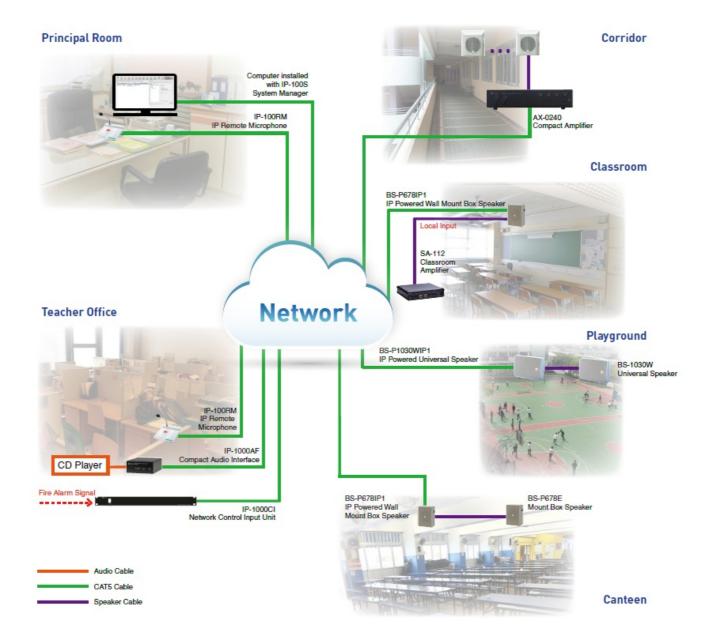


BS-PE678IP1 / PC-PE1868IP1 / SC-PE630IP1

- Quick installation with power over Ethernet
- Flexible system expansion where network connection is available
- Different product options satisfying indoor & outdoor application.

Specifications	BS-PE678IP1	PC-PE1868IP1	SC-PE630IP1
Speaker Unit	6" (16cm) double cone ty	5" (12cm) cone type	_
Power Source	DC 24V/1A or PoE		DA 24V/2.7A or PoE
Standby Power Consumption	Less tham 5W		
Rated Output Consump tion (DC Supply)	2*7W		28W/8W
Rated Output Consump tion (PoE Supply)	2*7W		15W/8W
Sensitivity (1m/ 1W)	94dB	90dB	113dB
Frequency Response	100 – 18,000 Hz	300 – 18,000 Hz	
Dust/ Water Protection	-	IP65	
Network I/F	10BASE-T/100BASE-TX, auto-negotiation		
Network Protocol	UDP, ARP, ICMP, HTTP, IGMP		
Operation Temperature	-20°C to +50°C		
Operation Humidity	Less than 90% RH (no condensation)		_
	Baffle: HIPS resin, off-whi te Cabinet: Particle board	Baffle: ABS resin, off-whi	Horn flare: Aluminum, off- white
Finish	, off-white Grille: Surface-treated ste el plate, off-white	Grille: Steel net, off-white (RAL 9010 or equivalent color), paint	Reflector horn & rear cover : ABS resin, off-white Bracket, screws and bolts: Stainless steel
Dimensions	250(W) x 190(H) x 110(D) mm	Φ180 x11(exposed section) + 110(D)mm	285(W) x 227(H) x 277(D) mm
Accessory	Speaker mounting screw M4*35 x2, 4P terminal block x1	Mounting brackets x1 4P terminal block x1	4P terminal block x1

Typical Solution: School



Advantages

IP-1000S System Management Software turning ordinary computers in principal room, office and reception into work station allows increasing the number of control point without extra cost and space. Flexibility does not only come from network connection but also different level of integration with existing conventional equipment.

- IP-1000AF provide means for existing amplifier to go network by converting analogue signals in and out the network.
- IP module, AX series and DA-502H digital amplifier connects existing speakers to network by providing output power from 240W to 500W to meet different requirement.
- IP-speaker not only provide flexibility in installation but also usage by having local input to integrate with local equipment like classroom amplifiers or wireless microphone.

Specifications are subject to change without notice. Printed in Hong Kong www.toa.com.hk

Documents / Resources

	TOA IP-1000 Series IP Network Audio Management System [pdf] User Guide IP-1000 Series IP Network Audio Management System, IP-1000 Series, IP Network Audio Management System, Audio Management System

References

- In toa (Hong Kong) LIMITED
- User Manual

Manuals+, Privacy Policy

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