

### ■DESCRIPTION

TOA intercom system EXES-6000 is composed of central exchange EX-620 and stations and uses star cabling EX-620 are microcomputer-controlled electronic exchanges used exclusively for internal communications.

Hands-free operation and full duplex operation conversation using handsets are both available. Various other functions such as Personal Number Calls, and Conference are also included.

Moreover, the system can be connected with many types of external equipments, such as PA-systems, PBX, External phone line and Indication Boards.

TOA's EX-620 exchange have been designed to provide total integrated communications.

### ■SYSTEM COMPOSITION

The system is composed of three basic blocks

(1) Exchange EX-620 (2) Terminal Cabinet and Connecting Cables

#### 1. EX-620 (Exchange)

a) Central processing unit	CP-66
b) Output control unit	OC-62
c) High control unit	HC-64
d) Signal generating and distributing unit	SG-62
e) Duplex link unit	DL-62A
4 links /unit	
4 units (max.) /without CL unit	
CL-62A may be inserted instead of SL-62A	
f) Conference link unit	CL-62A
1 conference link and 2 duplex link/ unit	
DL-62A may be inserted instead of CL-62A	
g) Line modem unit	LM-62B,LM-65
8 line /unit	
16 units (max.) /without PI and TI unit.	
h) Paging interface unit	PI-62 *
All-call + 7zones /unit or 8zones/ unit	
2 units (max.) /without TI unit	
1 unit (max.) /with TI unit	
i) Tie-line interface unit	TI-62 *
8 tie-line links /unit	
j) SM-600 interface unit	SI-62 *
k) Blank panel	BK-62
l) Exchange cabinet rack	CR-620
m) Exchange frame	FR-620A
n) Power supply unit	DS-620

Note : Units marked \* are optional units.

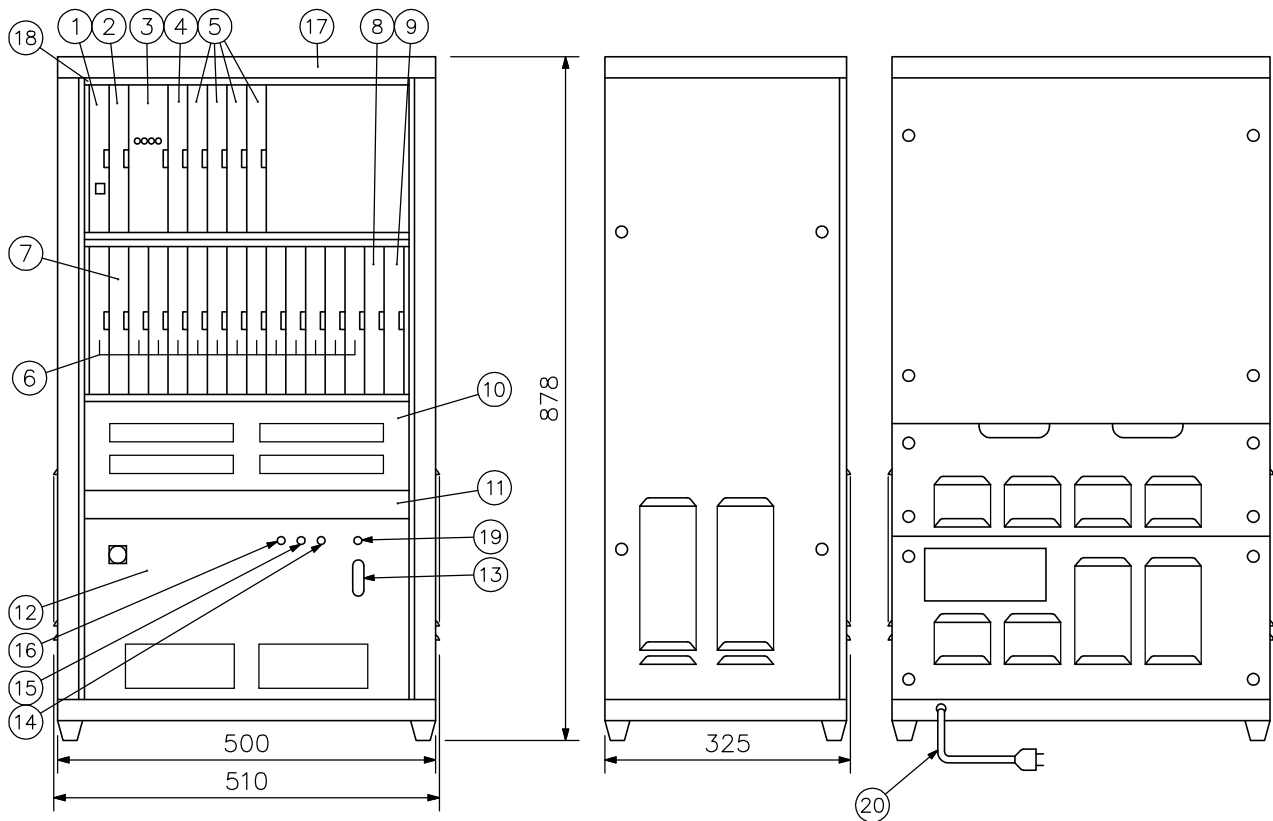
#### 2. Terminal Cabinet and Connection Cables

a) Terminal cabinet	BX-620
For 128 2-wire stations, 16 zones PA	
paging and 8 tie-line links.	
b) Junction cable	YR-810
For 2-wire stations	
c) Junction cable	YR-801
For PI-62 and / or TI-62	
d) Terminal block with connecting cable	BOX-08
For stations, PI-62 and TI-62	

## ■ SPECIFICATIONS

Type	PAM time sharing system
Control	Stored program control system
Calling type	Signal tone calling or voice calling Hands-free calling (one calling tone) or Confidential calling (continuous calling tone)
Speech methode	Hands-free conversation and handset conversation
Dialing code	Amplitude modulated pluse number code
Line capacity	128 without paging function 120 All-call paging + 7 zones paging/ without paging, tie-line connection 112 All-call paging + 15 zones paging /All-call paging + 7 zones paging, tie-line connection (expandable in 8-line step)
Speech link	16 links without conference
Capacity	Link availability decreases in 2 link-unit per conference expandable in 4 line units
Conference line	4
Number scheduling	No.200 ~ No.999 (standard) Note : Referto "Function specifications for CP-66" for non-standard number scheduling.
Personal number scheduling	No.1000 ~ No.1999
Service signal tones	8 tones : Calling tone, Busy tone, Dial tone, Priority tone Privacy tone, Holding tone /Confirmation tone, Zone paging Pre-announce tone and All-call paging
Wiring	None-polar two wire system Loop resistance : 300 ohms or less Impedance : 600 ohms, balanced Cable length : Max. 1.0 km (0.4mm dia.) Max. 2.5 km (0.65mm dia.) Max. 3.5 km (0.9mm dia.)
Voice transmission	Base band signal transmission (from exchange to station) Frequency division multiplex transmission by FM signal (from station to exchange)
Min. input signal level	-17 dBm
Max. output signal level	+30 dBm
Input and output	Base band : 200 Hz ~ 5 kHz
Transmission band	FM carrier band : 15 kHz ~ 35 kHz
Noise level	-40 dBm or less
Crosstalk	-70 dB or less (1.5 kHz)
Speech gain	+30 dB $\pm$ 3 dB (1 kHz)
Subscriber insulation resistence	3 Mohms or more
Battery for data strage (equipped on CP unit)	Type : Ni-Cd button battery GB50-3FAI Voltage : 3.6 V Capacity : 50 mAh Period of battery charge : Approx. 8days (perfectly discharged) Data holding : Approx. 1 month (25 °C/ 77 °F) Approx. 8 days (40 °C/ 104 °F) Ecpected life : Approx. 4 years (25 °C/ 77 °F)
Power source (DS-620)	AC mains (110, 120, 220, 240V) $\pm$ 10% 50/60 Hz, DC 24V
Rated power	210W (No link occupaied) , 500W (Max.)
Battery for AC power-off operation	Type : Sealed type Ni-Cd battery (NDC-2435) Voltage : 24V Capacity : 3500 mAh Charge system : Trickle charging, approx. 1/40CA (20%dc/68°F) Power-off operation time : Approx. 1.5hrs.(3×NDC-2435 necessary per system)
Ambient temperature	0 °C ~ 40°C (32°F ~ 104°F)
Dimensions(WXHXD)	510 × 878 × 325 mm (20.08" × 34.57" × 12.80")
Weight	57 kg (125.63 lbs.) without battery

### ■ APPEARANCE



- |  |  |
|--|--|
| 1. Central processing unit               | CP-66  |
| 2. Output control unit                   | OC-62  |
| 3. Highway control unit                  | HC-64  |
| 4. Signal generating & distributing unit | SG-62  |
| 5. Conference link unit                  | CL-62A (DL-62A may be mounted)                   |
| 6. Line modem unit                       | LM-62C (LM-65C may be mounted)                   |
| 7. Speech interface unit                 | SI-62 (LM-62C or LM-65C may be mounted)          |
| 8. Tie line interface unit               | TI-62 (LM-62C or LM-65C or PI-62 may be mounted) |
| 9. Paging interface unit                 | PI-62 (LM-62C or LM-65C may be mounted)          |
| 10. Perforated panel                     | PF-022G  |
| 11. Data transmitting unit               | DT-E60 (PF-012G may be mounted)                  |
| 12. Power supply unit                    | DS-620   |
| 13. Power switch                         |  |
| 14. AC fuse holder                       |  |
| 15. DC fuse holder                       |  |
| 16. Battery fuse holder                  |  |
| 17. Cabinet rack                         | CR-620   |
| 18. Frame                                | FR-620A  |
| 19. LED                                  |  |
| 20. Power supply cord                    |  |

UNIT:mm SCALE:1/10