N-8400RS CE

SUB STATION INTERFACE UNIT



The N-8400RS is a Sub-station interface unit designed for use with TOA's packet intercom system (IP network-compatible intercom system) that employs the packet audio technology. Up to 16 sub-stations can be connected using 2 sets of twisted pair cables. The number of LAN-connected N-8000 system components such as the N-8400RS and IP intercom exchanges is 192 maximum in total. Connecting the unit to the LAN permits the sub-station to receive paging calls and make calls to both the master station connected to the IP intercom exchange and the IP master station. It can be mounted in an EIA equipment rack (1U size) with the use of an accessory rack mounting bracket or installed on a wall using an optional wall mounting bracket.

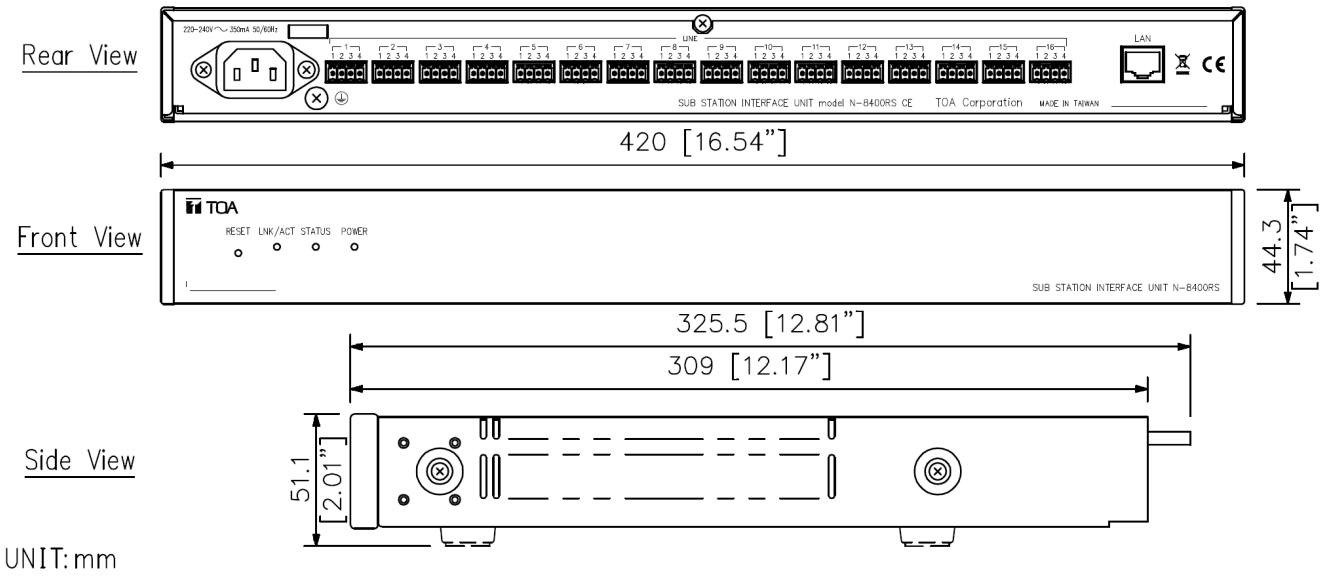
Key features

- 10 Base-T / 100 Base-TX Ethernet network connection
- 16 station capacity
- 4-wire connection between stations and unit
- 2 speech links

Specifications

Power Source	220 - 240 V AC, 50/60 Hz
Power Consumption	30 W (at rated), 45 W (max.)
Interface Section for Sub-station	Number of lines: 16 lines Number of speech link: Internal: 1/External: 2 Transmission system: Analog baseband Transmission range: 1000 m (1093.61 yd) / Ø0.5 mm (AWG24), 1500 m(1640.42 yd)/Ø0.65 mm (AWG22), 2000 m (2187.23 yd)/Ø0.9 mm (AWG19) Speech method: Half-duplex conversation by way of voice switch (Hands-free), Full-duplex (Handset) Connector: Removable terminal block (4 pins) Wiring method: 2 sets of twisted pair cables Audio output: Max. 1W/line (conversation), Max. 0.5 W/line (paging) Feeding voltage/current: 24 V DC, 30 mA max. Control signal: Call in button detection, hook detection
Network Section	Network I/F: 10BASE-T/100BASE-TX (Automatic-Negotiation) Network protocol: TCP/IP, UDP, HTTP, RTP, ARP, ICMP, IGMP Audio packet transmission system: Unicast, Multicast Number of paging destinations: 0, *Reception only Connector: RJ45 connector Voice sampling frequency: 16 kHz, 8 kHz (controllable on the software) Quantifying bit number: 16-bit Voice encoding method: Sub-band ADPCM, Cryptosystem Voice packet loss recovery: Silence insertion Audio delay time: 80 ms, 320 ms (controllable on the software)
Indicator	LNK/ACT indicator, Status indicator, Power indicator
Other	Firmware update function, System data hold function, Reset switch (front panel), Forced air cooling
Installation Method	Rack, Desk, Surface mount
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)
Operating Humidity	90 %RH or less (no condensation)
Finish	Pre-coated steel plate, black, 30 % gloss
Dimensions	420 (W) x 44.3 (H) x 325.5 (D) mm (16.54" x 1.84" x 12.81")
Weight	4 kg (8.82 lb)
Included Accessories	Power cord (2 m (6.56 ft) x 1, CD (for PC setting, maintenance use) x 1, Removable terminal plug (3 pins) x 16, Plastic foot x 4, Screw for fitting plastic foot x 4, Rack mounting bracket x 2, Screw for mounting bracket x 8, Screw for rack mounting x 4
Optional Accessories	Wall mounting bracket: YC-850

Dimensions


Rear View
LINE
LAN
SUB STATION INTERFACE UNIT model N-8400RS CE
TOA Corporation
MADE IN TAIWAN
420 [16.54"]
Front View
TOA
RESET LNK/ACT STATUS POWER
SUB STATION INTERFACE UNIT N-8400RS
44.3 [1.74"]
325.5 [12.81"]
309 [12.17"]
Side View
51.1 [2.01"]
UNIT: mm

A&E specifications

The sub station interface unit is designed for use with TOA's packet intercom system (IP network compatible intercom system) that employs the packet audio technology and can be connected to an existing local area network (LAN) or wide area network (WAN).
Network shall be made possible using RJ45 connection via a switching hub. Network interface shall be I/F 10BASE-T/100BASE-TX (Automatic-Negotiation) Auto MDI/MDI-X compatible. Network Protocol TCP/IP, UDP, ARP, ICMP, HTTP, RTP, IGMP.
The sub station interface unit shall have 16 contacts with removable plugs at the rear of the unit for the purpose of connecting up to 16 sub-stations using 2 sets of twisted pair cables.
By connecting the unit to a LAN via its RJ45 connector permits the sub station interface unit to receive paging calls and make calls to both the master station connected to the IP exchange and the IP master station with 2 speech paths.
Up to 192 interface units and IP intercom exchanges (mixed) can be achieved by LAN connection.
The sub station interface unit shall have indication lamps on the front panel displaying: LNK/ACT lights green when connected to a network, and flashes while transmitting or receiving data. STATUS continuously lights red while data is written to an internal storage medium. POWER lights green when power is supplied to the unit. There shall be a RESET key on the front panel to reactivate the unit.
The sub station interface unit shall include dedicated software that will enable centralised control, log verification and system maintenance from a personal computer. Line supervision can also be performed using a personal computer and Internet browser.
Power requirements shall be 220 – 240V AC.
It shall use only one EIA component rack space and its dimensions shall be 420 (W) × 44.3 (H) × 325.5 (D) mm (16.54" × 1.74" × 12.81") Weight shall be 4 kg (8.82lb.) and finished in black pre-coated steel plate. Alternatively, the unit can be wall mounted.
Optional extras: YC-850 wall mounting bracket manufactured by TOA Corporation.