



GEN-3102A03

Network LED Clock

The GEN-3102A03 is a network LED clock unit with DC and PoE power options. It supports direct SIP or VMS calls, up to 20 multicast streams, and stores 20 audio files. It includes priority management, timers, and customizable events (via HTTP API) and can connect up to two external constant impedance speakers, ideal for schools.

SIP

Onvif

POE

Multicast



MAIN FEATURES

▲ LED dot matrix lighting technology

The GEN-3102A03 uses 20 8x8 LED dot matrix modules, providing uniform lighting and a viewing angle of up to 180°. It has a built-in high-precision RTC clock circuit that supports time synchronization via an NTP server. In standalone mode, it displays the time, and when connected to a server, it can function as an information terminal to display text messages.

▲ Local audio file storage and playback

The device has built-in storage that supports up to 20 audio files (total capacity of 80MB), which can play WAV and MP3 formats. It supports various playback modes, including scheduled playback, repeat, and interval playback, making it ideal for applications such as timed announcements and emergency broadcasts.

▲ Supports microphone attachment for call expansion.

The device is compatible with an optional microphone attachment (GEN-4101), and can be set up via the web page to preset a specific call target for one-touch dialing, making it ideal for classroom applications and similar environments.

SPECIFICATION

Audio Interfaces

Amplifier Output	2*30W/8Ω (Use DC 24V) 2*7W/8Ω (Use POE/POE+)
Audio Input	×1, Line/Mic input (Balanced,Switchable)
Input Sensitivity	-10dB(Line) , -20dB(Mic)
Frequency Response	100Hz~20KHz
Bluetooth Input	×1,2.4GHz

Other Interfaces

Power Input	×1,DC24V
Network I/F	RJ45 Connector, support PoE IEEE 802.3af/at
Control Input	×2
Control Output	×1,Relay output/DC12V output switchable
Reset Button	×1

Audio

Audio Transmission	Multicast , ×20(Editable)
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722
Audio Stream	WAV(8/16/22/44.1/48 kHz sampling rate, 8/16 bits, mono/stereo), MP3(32/44.1/48 kHz sampling rate, 64-320kbps, CBR/VBR, mono/stereo).
Audio Storage	Max 20 audio files,80MB
Audio File Format	WAV,MP3
SNR	≥85dB

Microphone

Microphone	Electret condenser microphone
Directionality	Omni-directional
Installation method	Built-in
Sensitivity	-45±3dB
SNR	58dB
Max Input Sound Level	110dB(THD < 1%)

SPECIFICATION

LED Display

Display Color	Red
Display Character Quantity	10(Max)
Brightness Level	3 Levels

Network

Network I/F	10BASE-T/100BASE-TX ,RJ45 Connector
Network Protocol	TCP/IP,UDP,HTTP,RTP,RTSP,ARP,ICMP,NTP,SIP,ONVIF,DHCP
Config Method	Web Interface or DevConfig Tool

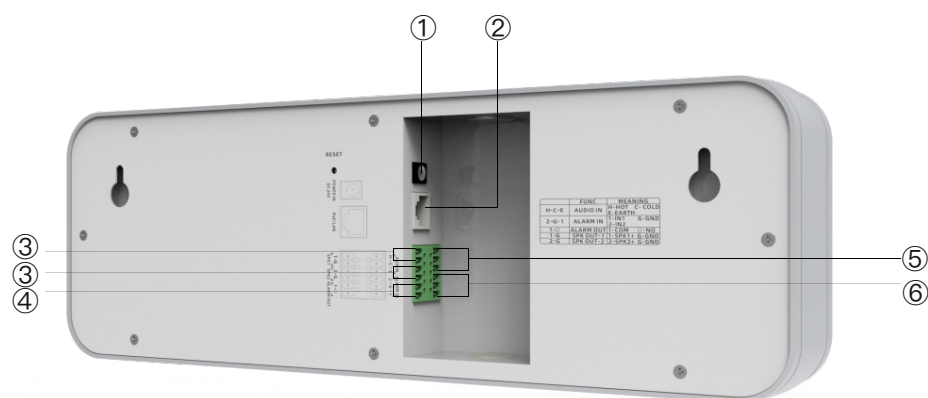
Mechanical & Environment Properties

Housing Material	Sheet Metal,ABS
Color	White,black
Working Temp	-10°C~+50°C
Humidity	≤90% RH non-condensing
Mounting Method	wall-mounted installation
Installation Environment	Indoor Locations
Dimensions	366*123*55mm
Weight	1600g
Warranty	2 Years

ACCESSORIES

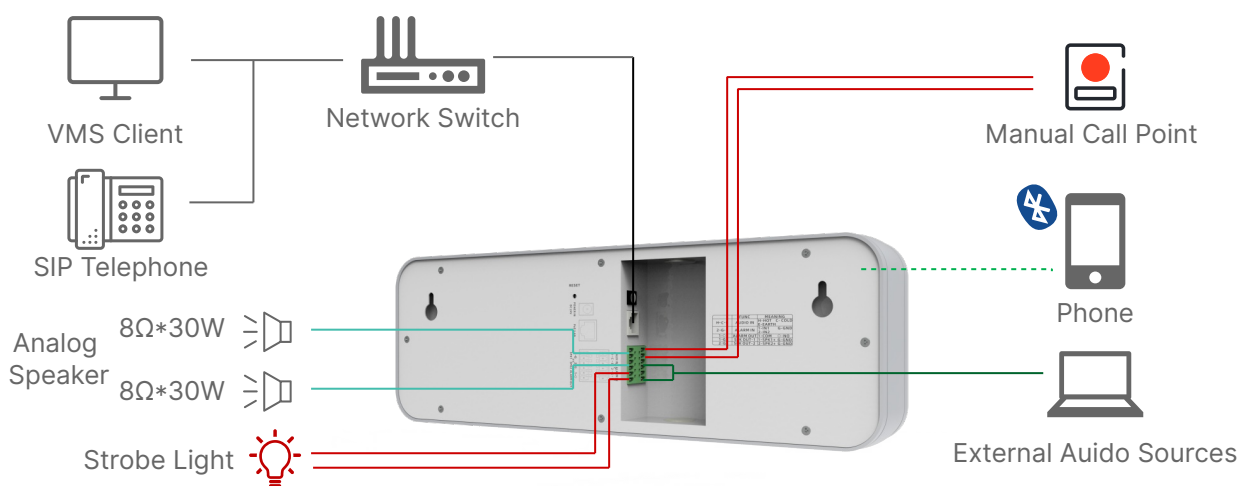
2×6pin Terminal(3.81-6P)
1×Power Adapter(DC24V/2.7A)/Optional
1 × Installation Manual

INTERFACE DESCRIPTION



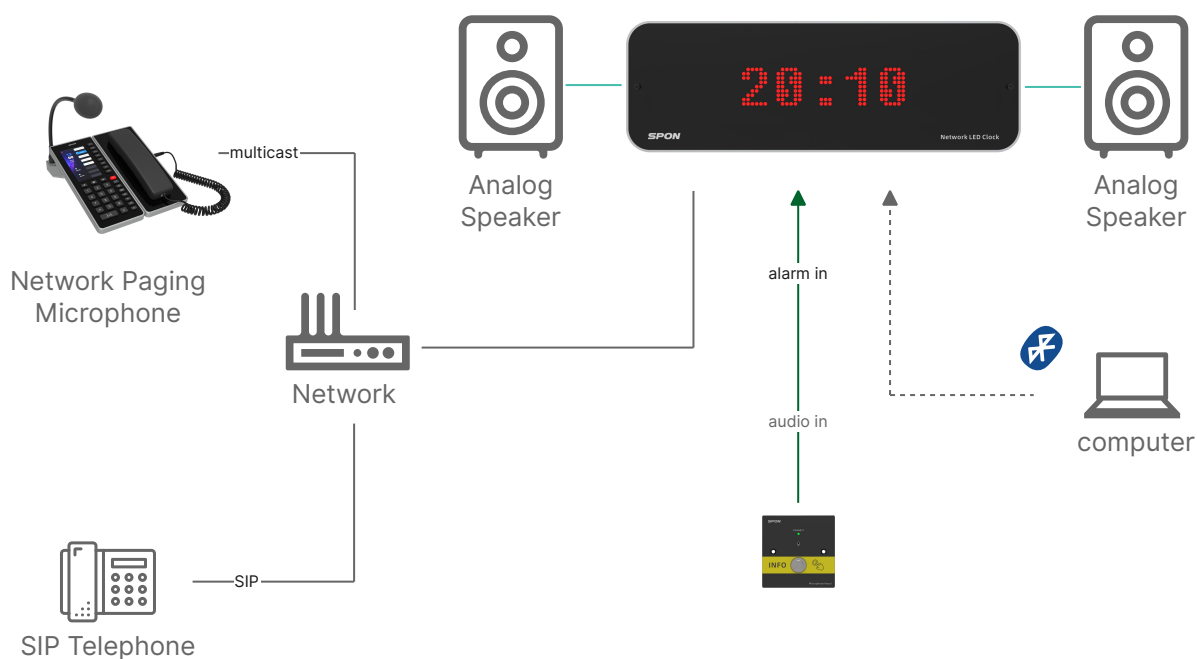
- ①Power Input
- ②RJ45 Connector
- ③Speaker Output
- ④Alarm Output Terminal
- ⑤Alarm Input Terminal
- ⑥Line/Mic Input Terminal

CONNECTION DIAGRAM



APPLICATION

The GEN3102A03 Network LED Clock supports direct calls from SIP or VMS platforms. It features a built-in 2*30W amplifier and can connect two 8Ω 30W speakers. The time is automatically displayed upon startup and can be synchronized with an NTP server. The device also supports external microphone attachments, preset call targets, and one-touch call initiation, making it ideal for school environments.



Technical drawing of the SPON Network LED Clock, showing front, side, and rear views with dimensions.

Front View Dimensions:

- Width: 366 mm (14.41")
- Height: 123 mm (4.84")
- Bottom Left: SPON
- Bottom Right: Network LED Clock

Side View Dimensions:

- Depth: 55 mm (2.17")
- Bottom Mounting Flange Width: 58 mm (2.28")

Rear View Dimensions:

- Width: 295 mm (11.61")
- Mounting Hole Spacing (Left): 5 mm (0.20")
- Mounting Hole Spacing (Right): 12.50 mm (0.49")

Rear View Features:

- RESET button
- ETHERNET port
- Terminal block for wiring (labeled: 1-10, 11-12, 13-14, 15-16, 17-18, 19-20, 21-22, 23-24, 25-26, 27-28, 29-30, 31-32, 33-34, 35-36, 37-38, 39-40, 41-42, 43-44, 45-46, 47-48, 49-50, 51-52, 53-54, 55-56, 57-58, 59-60, 61-62, 63-64, 65-66, 67-68, 69-70, 71-72, 73-74, 75-76, 77-78, 79-80, 81-82, 83-84, 85-86, 87-88, 89-90, 91-92, 93-94, 95-96, 97-98, 99-100, 101-102, 103-104, 105-106, 107-108, 109-110, 111-112, 113-114, 115-116, 117-118, 119-120, 121-122, 123-124, 125-126, 127-128, 129-130, 131-132, 133-134, 135-136, 137-138, 139-140, 141-142, 143-144, 145-146, 147-148, 149-150, 151-152, 153-154, 155-156, 157-158, 159-160, 161-162, 163-164, 165-166, 167-168, 169-170, 171-172, 173-174, 175-176, 177-178, 179-180, 181-182, 183-184, 185-186, 187-188, 189-190, 191-192, 193-194, 195-196, 197-198, 199-200, 201-202, 203-204, 205-206, 207-208, 209-210, 211-212, 213-214, 215-216, 217-218, 219-220, 221-222, 223-224, 225-226, 227-228, 229-230, 231-232, 233-234, 235-236, 237-238, 239-240, 241-242, 243-244, 245-246, 247-248, 249-250, 251-252, 253-254, 255-256, 257-258, 259-260, 261-262, 263-264, 265-266, 267-268, 269-270, 271-272, 273-274, 275-276, 277-278, 279-280, 281-282, 283-284, 285-286, 287-288, 289-290, 291-292, 293-294, 295-296, 297-298, 299-300, 301-302, 303-304, 305-306, 307-308, 309-310, 311-312, 313-314, 315-316, 317-318, 319-320, 321-322, 323-324, 325-326, 327-328, 329-330, 331-332, 333-334, 335-336, 337-338, 339-340, 341-342, 343-344, 345-346, 347-348, 349-350, 351-352, 353-354, 355-356, 357-358, 359-360, 361-362, 363-364, 365-366, 367-368, 369-370, 371-372, 373-374, 375-376, 377-378, 379-380, 381-382, 383-384, 385-386, 387-388, 389-390, 391-392, 393-394, 395-396, 397-398, 399-400, 401-402, 403-404, 405-406, 407-408, 409-410, 411-412, 413-414, 415-416, 417-418, 419-420, 421-422, 423-424, 425-426, 427-428, 429-430, 431-432, 433-434, 435-436, 437-438, 439-440, 441-442, 443-444, 445-446, 447-448, 449-450, 451-452, 453-454, 455-456, 457-458, 459-460, 461-462, 463-464, 465-466, 467-468, 469-470, 471-472, 473-474, 475-476, 477-478, 479-480, 481-482, 483-484, 485-486, 487-488, 489-490, 491-492, 493-494, 495-496, 497-498, 499-500, 501-502, 503-504, 505-506, 507-508, 509-510, 511-512, 513-514, 515-516, 517-518, 519-520, 521-522, 523-524, 525-526, 527-528, 529-530, 531-532, 533-534, 535-536, 537-538, 539-540, 541-542, 543-544, 545-546, 547-548, 549-550, 551-552, 553-554, 555-556, 557-558, 559-560, 561-562, 563-564, 565-566, 567-568, 569-570, 571-572, 573-574, 575-576, 577-578, 579-580, 581-582, 583-584, 585-586, 587-588, 589-590, 591-592, 593-594, 595-596, 597-598, 599-600, 601-602, 603-604, 605-606, 607-608, 609-610, 611-612, 613-614, 615-616, 617-618, 619-620, 621-622, 623-624, 625-626, 627-628, 629-630, 631-632, 633-634, 635-636, 637-638, 639-640, 641-642, 643-644, 645-646, 647-648, 649-650, 651-652, 653-654, 655-656, 657-658, 659-660, 661-662, 663-664, 665-666, 667-668, 669-670, 671-672, 673-674, 675-676, 677-678, 679-680, 681-682, 683-684, 685-686, 687-688, 689-690, 691-692, 693-694, 695-696, 697-698, 699-700, 701-702, 703-704, 705-706, 707-708, 709-710, 711-712, 713-714, 715-716, 717-718, 719-720, 721-722, 723-724, 725-726, 727-728, 729-730, 731-732, 733-734, 735-736, 737-738, 739-740, 741-742, 743-744, 745-746, 747-748, 749-750, 751-752, 753-754, 755-756, 757-758, 759-760, 761-762, 763-764, 765-766, 767-768, 769-770, 771-772, 773-774, 775-776, 777-778, 779-780, 781-782, 783-784, 785-786, 787-788, 789-790, 791-792, 793-794, 795-796, 797-798, 799-800, 801-802, 803-804, 805-806, 807-808, 809-810, 811-812, 813-814, 815-816, 817-818, 819-820, 821-822, 823-824, 825-826, 827-828, 829-830, 831-832, 833-834, 835-836, 837-838, 839-840, 841-842, 843-844, 845-846, 847-848, 849-850, 851-852, 853-854, 855-856, 857-858, 859-860, 861-862, 863-864, 865-866,