

PRODUCT DATASHEET

CY-BS130

IP Network Power Amplifier

120W | 100V / 70V / 4-16Ω | Multi-Zone Broadcast

The CY-BS130 is a 120W IP network power amplifier engineered for professional paging, background music, and emergency broadcast. It receives audio streams over IP, connects directly to 100V/70V constant-voltage speaker lines, and delivers intelligent 3-level priority management ensuring life-safety announcements always override regular playback.



120W RATED OUTPUT	100V CONSTANT VOLTAGE	3 PRIORITY LEVELS	2x RJ45 NETWORK	-20°C MIN. TEMP	>75dB SNR	160W POWER DRAW
----------------------	--------------------------	----------------------	--------------------	--------------------	--------------	--------------------

KEY FEATURES

- ✓ **120W Class-D IP Amplifier** — Direct-drive 100V/70V and 4–16Ω speaker lines with built-in network audio decoding — no separate decoder required
- ✓ **Dual RJ45 WAN/LAN Ports** — Two 10/100M interfaces with automatic failover maintain continuous IP audio server connectivity
- ✓ **3-Level Priority Management** — Network alarms override all other audio; system auto-returns to scheduled playback upon alert completion
- ✓ **Fire Alarm Integration** — Dedicated 70W/24V override output plus two short-circuit contacts boost speaker volume during fire events
- ✓ **Built-in Monitor Speaker** — Internal 3W full-range speaker with howling cancellation enables local monitoring and IP talkback
- ✓ **TF Card Backup Broadcasting** — Preloaded TF card maintains scheduled chimes and emergency messages during network outages

INSTALLATION NOTES

- ▶ Fits standard 19-inch rack; two rack-ear brackets included
- ▶ Connect to network switch via Cat5e/Cat6 (WAN port for primary, LAN for local devices)
- ▶ 100V / 70V speaker line terminals on rear panel; max total load not to exceed 120W
- ▶ Fire alarm panel wiring: connect dry-contact output to rear override terminal
- ▶ RS-232 port supports third-party AV control systems (Crestron, AMX compatible)
- ▶ Compatible with C-Yark IP audio server and zone controller software

TECHNICAL SPECIFICATIONS

MODEL	CY-BS130	RATED OUTPUT POWER	120W
OUTPUT MODE	4-16Ω / 70V / 100V	FREQUENCY RESPONSE	20Hz – 20KHz
THD	≤0.1% @ 1KHz	SNR	>75dB
SUPPORTED AUDIO FORMATS	MP3, WMA, OGG (up to 320 kb/s)	NETWORK INTERFACE	2x RJ45 10/100M (WAN/LAN)
AUDIO INPUTS	1x AUX, 1x MIC	AUDIO OUTPUT	1x Line Out
SERIAL INTERFACE	1x RS-232	FIRE ALARM OUTPUT	70W/24V override + 2x short-circuit
MONITOR SPEAKER	3W built-in (howling cancellation)	STANDBY TIMER	Adjustable 1–99 minutes
BACKUP STORAGE	TF Card (optional)	INPUT POWER	AC 220V / 50Hz
POWER CONSUMPTION	160W	OPERATING TEMPERATURE	-20°C to +60°C
OPERATING HUMIDITY	10% – 90% RH	DIMENSIONS (W×D×H)	482 × 353 × 90 mm
WEIGHT	9 kg	CERTIFICATIONS	CE, 3C, ISO 9001
WARRANTY	24 Months		

EMERGENCY BROADCAST

3-level priority ensures alarm messages instantly override all background audio. Fire alarm panel integration with dedicated 70W/24V output.

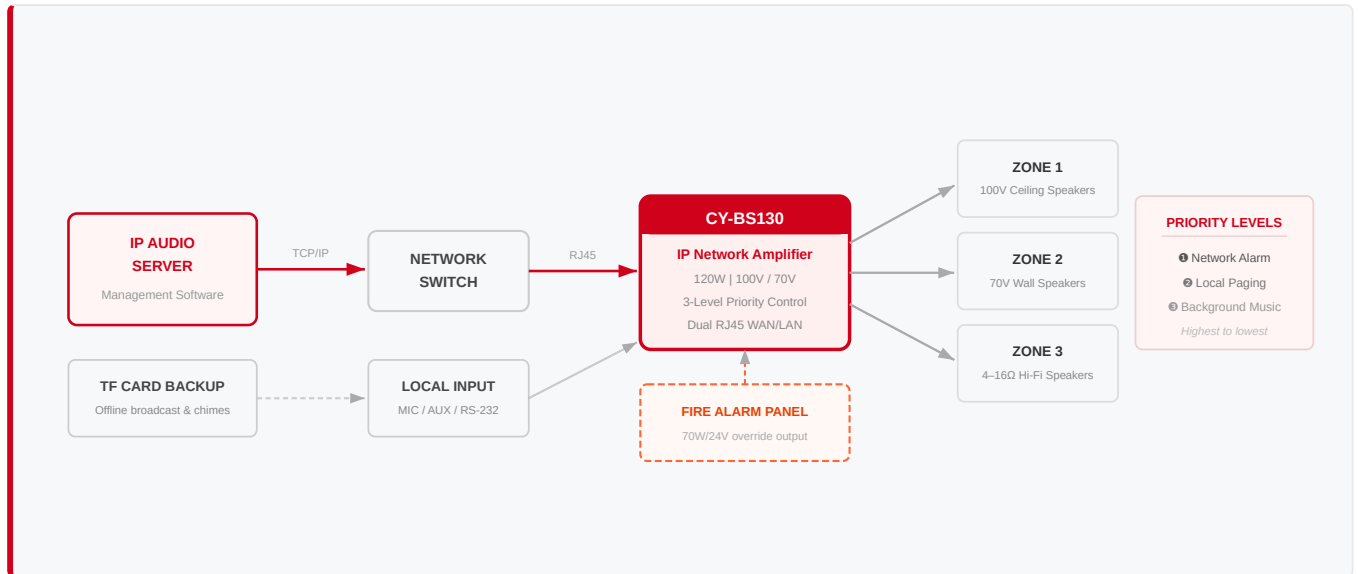
IP NETWORK AUDIO

Dual WAN/LAN ports with automatic failover. Supports MP3, WMA, OGG streaming. TF card backup ensures uninterrupted operation.

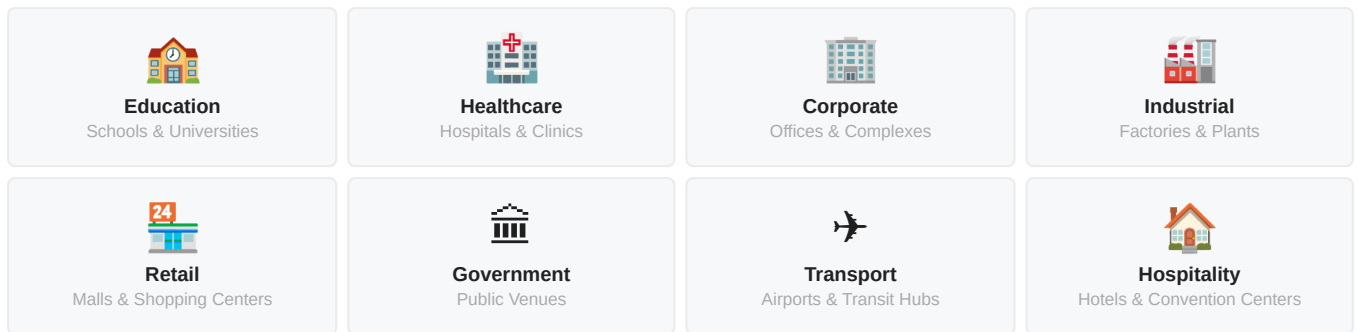
FLEXIBLE SPEAKER LINES

Drives 100V, 70V, and 4–16Ω speaker loads. Local MIC/AUX inputs and RS-232 control for third-party system integration.

SYSTEM ARCHITECTURE



TYPICAL APPLICATION SCENARIOS



WHY C-YARK

10+ YEARS IN PA	CE CERTIFIED	ISO 9001 QUALITY	3C COMPLIANT
---------------------------	------------------------	----------------------------	------------------------

ORDERING INFO

CY-BS130 — 120W IP Network Amplifier
Includes: power cable, rack ears
Optional: TF card backup module
Rack-mount 2U chassis

COMPATIBLE WITH

C-Yark IP Audio Server
C-Yark IP Paging Terminals
C-Yark Zone Controllers
C-Yark IP Network Microphone
Standard 100V / 70V speakers

NOTES

Specifications subject to change without prior notice.
Product images for reference only.
© C-YARK · Guangzhou Quanzhiyun Electronic Technology Co., Ltd.
DS-CY-BS130-EN-052026

MANUFACTURER

C-YARK
Guangzhou Quanzhiyun Electronic Technology Co., Ltd.

CONTACT

www.gzcyark.com
info@gzcyark.com
+86 138-2841-7108

LOCATION

Guangzhou, Guangdong, China
Est. 2006 · Professional PA & IP Audio