

PROGRAMMABLE CENTRAL CONTROL · 1U · GIGABIT ETHERNET

Universal Central Control System

8 × two-way serial · 8 × IR · 8 × relay · 8 × digital I/O

BX-1000

A programmable integrated controller for command centres, automated offices, multimedia rooms and smart-building environments. A configurable, protocol-driven user interface delivers intelligent networking that ties together large-scale control installations from a single console. With eight two-way serial ports, eight IR outputs, eight relay ports, eight digital I/O ports and a Gigabit Ethernet interface, the BX-1000 drives many devices at once — matrix switchers, projectors, displays, lighting, doors and curtains — across emergency alarm centres, C4ISR rooms, government administration, smart buildings, conference and training rooms, multi-function halls, showrooms, broadcast studios and industrial automation.



8× 2-WAY
SERIAL



8× IR
OUTPUT



8× RELAY
OUTPUT



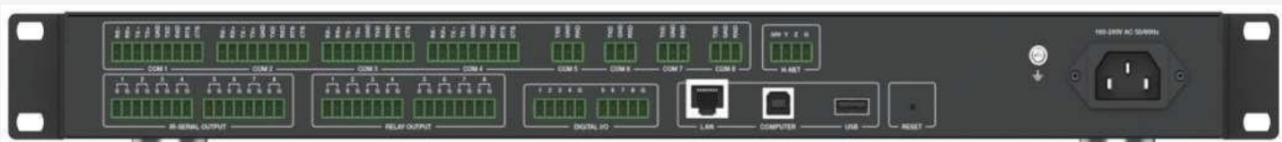
8× DIGITAL
I/O



GIGABIT
ETHERNET



FRONT PANEL — IR-LEARNING / STATUS & INDICATOR ARRAY / TX-RX LEDS



REAR PANEL — COM 1-8 / IR-SERIAL / RELAY / DIGITAL I/O / H-NET / LAN / USB / AC IN

KEY CAPABILITIES /

- 8 two-way serial ports for matrix switchers, projectors and other A/V devices.
- 8 IR outputs / one-way serial ports for DVD players, TVs and home appliances.
- 8 relay ports to control lighting, doors and curtains.
- 8 digital inputs for sensor signals.
- Ethernet control of networked devices for monitoring and management.
- IR learning.
- High-performance built-in web server with online firmware upgrade.
- Compliant with standard network communication protocols.
- Password protection against unauthorised access.
- Built-in synchronised clock.
- Standard 1U rack mounting; supports factory reset.
- 220 V AC mains supply.

CONNECTIONS /

INTERFACES & PORTS

COM 1–4	4 × 9-pin Phoenix connectors — two-way RS-232 / RS-422 / RS-485 serial communication
COM 5–8	4 × 3-pin Phoenix connectors — RS-232 serial communication
IR / Serial output	2 × 8-pin Phoenix connectors — IR transmit or one-way RS-232 serial
Relay output	2 × 8-pin Phoenix connectors — low-voltage, isolated, normally-open relays; up to 30 VDC 2 A / 125 VAC 1 A
Digital I/O	2 × 5-pin Phoenix connectors — digital signal input
LAN	1 × RJ45, 10 / 100 / 1000M Ethernet
USB	1 × USB Type-A (function reserved)
Computer	1 × USB Type-B
H-NET	1 × 4-pin Phoenix connector — private bus interface (function reserved)
Reset	1 × reset control for restoring factory defaults
IR	1 × IR learning window

TECHNICAL PARAMETERS /

SYSTEM

CPU	ARM Cortex-A53, 1.8 GHz
Operating system	Android 9
RAM	2 GB DDR4
Flash memory	8 GB eMMC
Indicators	IR-learning, power, LAN, status; 8 × TX, 8 × RX, 8 × IR/serial, 8 × relay, 8 × I/O
Network protocols	TCP/IP, UDP/IP, DHCP, SSL, SFTP; IPv4 & IPv6

MECHANICAL & POWER

Housing	Metal enclosure, aluminium-alloy front panel
Colour	Black
Dimensions	440 (W) × 200 (D) × 44 (H) mm
Weight	2.1 kg
Installation	Standard 19" rack (mounting ears) or flat mount
Power supply	AC 110 – 220 V, 50 / 60 Hz
Power consumption	55 W max (48 W with external supply via H-NET)
Operating temp.	0 – 40 °C / 32 – 104 °F
Relative humidity	10 – 90% RH, non-condensing

TYPICAL APPLICATIONS /

Emergency alarm centres · C4ISR solutions · government administration centres · smart buildings · multimedia conference rooms · multi-function halls · training centres · showrooms · broadcasting studios · industrial automation.

Disclaimer: Product specifications might change due to continuous product research and development. Please contact Bronx or registered partners for confirmation before deployment.

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