

## Smart Management Box SMBOX02-R



## Features

- Integrated design, combining the SMSERVER, smart power management module, power supply switch, heater, fan, and warning light into one. Most IPC and IP Speaker models can be installed on the smart management box.
- Users can remotely monitor the working status of the smart management box and its loaded devices and receive alarm notifications via mobile app and EZCloud.
- Supports automatic restart of power port for network devices. When the smart management box detects a network disconnection, it will automatically power off the network devices and restart them.
- Supports manual restart of PoE port. If devices such as IPC or IP Speaker are faulty, users can manually restart the PoE power output port of the cloud management server via mobile app and EZCloud.
- Equipped with surge protector, circuit breaker, and software protection function, forming a three-layer protection mechanism to effectively resist risks such as lightning, short circuit, overvoltage, and overcurrent.
- Integrated design eliminates the need for manual wiring, simplifying installation for users.

## Specifications

Model	SMBOX02-R
<b>Power Input</b>	
Input Type	DC 10.8 V to DC 14.4 V, 12A
Input Port	3-pin Connector
<b>Power Output</b>	
Socket	N/A
DC 12V	1-ch 2.5A, DC5521, Used for powering the router
PoE	8 RJ45 10M/100M self-adaptive Ethernet Interface
PoE Power	Max 30 W for single port, Max 75 W in total
PoE Standard	IEEE 802.3at, IEEE 802.3af
<b>Dedicated Power Interface (Pre-Wired Internal Cabling)</b>	
NVR Power Interface	DC 10.8 ~ 14.4V to DC 48V, 2.5A
Router Power Interface	DC12V, 2.5A
Warning Light Power Interface	DC12V, 2.5A
<b>Function</b>	
System Functional Description	Power Information Collection, Power Switch Detection, Power Switch Control, Thermostatic Fan, Automatic Network Restart, Door Open Detection, Warning Light, Fault Reporting and Analysis
<b>SMSERVER</b>	
Decoding Format	Ultra 265, H.265, H.264
Decoding Capability	Smart Off: 2 x 16MP@30, 2 x 12MP@30, 4 x 4K@30, 8 x 4MP@30 Smart On: 2 x 12MP@30, 2 x 4K@30, 6 x 4MP@30, 8 x 3MP@30
Audio Compression	G.711A, G.711U
Bandwidth	80 Mbps
Protocols	TCP/IP, P2P, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, RTSP, IPv6, IPv4
IP Video Input	8-ch
FTP/Schedule/Event Snapshot	4-ch snapshot (max. 8 MP (3840 × 2160) video resolution, with 1080P snapshot resolution)
Recording Resolution	16 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/D1/2CIF/CIF
Smart by IPC	Face Detection, Face Comparison, Vehicle Detection, SIP (Intrusion Detection, Cross Line Detection, Enter Area, Leave Area), Ultra Motion Detection (UMD), Temperature Detection (Fire Detection, Smoking Detection, Temperature Measurement, Smoke and Fire Detection), People Counting (People Flow Counting, Crowd Density Monitoring), Video Metadata, Traffic Monitoring
Smart by SMBOX	Face Detection, Face Comparison, Ultra Motion Detection (UMD), Smart Intrusion Prevention (SIP)
VCA Search	Face Snapshot Search, Face Comparison Search, Motor Vehicle Search, non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report, Heat Map, Smart Search+, AcuSearch
by SMBOX with face detection cameras	8-ch
by SMBOX with normal cameras	2-ch
Vehicle Picture Library	Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total
SIP by SMBOX	4-ch

UMD by SMBOX	8-ch
Capacity of Snapshot Records	500 thousand records for face snapshot, One and a half millions records for SIP and vehicle
General Alarm	Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion Detection, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection
Alert Alarm	IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal, Array Damaged, Array Degraded
Network Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet Interface
USB	1 × USB2.0, 1 × USB3.0
Alarm In	4-ch
Alarm Out	2-ch
ONVIF	Support
<b>Hard Disk</b>	
Hard Disk	1 x SATA interface, up to 16TB HDD (2.5" or 3.5"), or up to 4TB SSD (2.5")
<b>Power Lightning Protector</b>	
Maximum discharge current	40 kA
Rated discharge current	20 kA
Response time	L-PE ≤ 25 ns, N-PE ≤ 25 ns
<b>General</b>	
Surge Protection	6 kV
Working Temperature	When using HDDs: -40 °C to 60 °C (-40 °F to 140 °F); When using SSDs: -40 °C to 70 °C (-40 °F to 158 °F)
Working Humidity	≤ 90% RH (non-condensing)
Weight (Without Camera)	≤ 15 kg (33.07 lb.)
Dimensions	650 (H) × 424 (W) × 230 (D) mm
Slot dimensions	The space has a depth of 55mm and a width of 190mm for installing a 4G router, Select a 4G router with DC 12V round plug power supply, total power consumption not exceeding 30W, and at least 3 LAN ports.
Rating	IP56, Custom stainless-steel enclosures available to meet NEMA 4X requirements.
Certification	CE-EMC, FCC
<b>Consumption</b>	
No-load power consumption	At ambient temperature of 25°C: 12.6 W (No HDD, No HDD Heating, No Fan, No Alarm Light)
Full-load power consumption	At ambient temperature of 25°C: 134.8 W (16T HDD, HDD Heating, Full POE Output (75W), Fan, Alarm Light)
SMSERVER power consumption	At ambient temperature of 25°C: ≤8W (No HDD+ No POE Output) 96.5W (Full POE Output + 16T HDD) 122.2W (Full POE Output + 16T HDD + Heating Film)
<b>Adaptable Mounting Bracket</b>	
Left side	Up to 2 units can be installed, supporting TR-JB07/WM03-F-IN-V2, TR-JB07/WM03-G-IN-V2, TR-JB07/WM03-H-IN-V2, TR-JB07/WM04-B-IN-V2, TR-JB05-B-IN or TR-JB07-D-IN-V2
Right side	Up to 2 units can be installed, supporting TR-JB07/WM03-F-IN-V2, TR-JB07/WM03-G-IN-V2,

	TR-JB07/WM03-H-IN-V2, TR-JB07/WM04-B-IN-V2, TR-JB05-B-IN or TR-JB07-D-IN-V2
Bottom	Up to 1 unit can be installed, which cannot be installed simultaneously with the IP Speaker and supports TR-UF45-A-IN (Only 4-inch PTZ)
Top	Support the installation of an IP speaker, no mounting bracket required.
Example	
Operating Time	<p>At ambient temperature of 25°C and under No-load conditions, the device operates for 203 hours when powered solely by battery (SLR-B2560-H) .</p> <p>At ambient temperature of 25°C and under Full-load conditions, the device operates for 19 hours when powered solely by battery (SLR-B2560-H) .</p> <p>Note: The above operating Time is tested under laboratory conditions. Actual operating time may vary depending on load power consumption and ambient temperature. This is for reference only.</p>

## Dimensions

