

(III) Technical Specifications

Screen



Outdoor LED specifications

Parameter	Minimum Specification Requirement
Cabinet Type	P4 Outdoor Die Cast Aluminum Cabinet 960 mm × 960 mm ± 10 mm
Pixel Pitch	4 mm ± 10% or better
LED Configuration	RGB 3-in-1 SMD (1R1G1B)
Panel Weight	≤ 30 Kg / Panel or Lower
Life Span	≥ 100,000 Hours
Duty Cycle	24 × 7 × 365
Operating Temp.	-20°C to +60°C
Display Colors	4,398 Billion
Viewing Angle	140° ± 10° (Horizontal & Vertical)
Best Viewing Dist.	≥ 4 Metres
Frame Frequency	≥ 60 frames/sec
Refresh Frequency	≥ 3,840 frames/sec
Brightness Uniformity	≥ 0.95
Nits (Brightness)	5500/6000
Grayscale	14–16 bits per RGB channel
Driving Method	Constant Current 1/10 Scan
IP Rating (Front)	IP 65
IP Rating (Enclosure)	IP 65
Mounting	Wall Mount and/or Pole Mount
Wireless	Yes
Connectivity	Ethernet, HDMI, USB Port

Parameter	Minimum Specification Requirement
Power Factor	> 0.95
LED Lamp	SMD 1921 or higher
Luminance Control	Multiple levels via central application
Auto Dimming	Yes – from local sensor
Self-Test	Power-ON or on-demand health test (Glow/No-Glow)
Cables	ISI certified marked cables
Certifications	- BIS India (Indian address), CE (EN55035-2017 / EN61000-3-3-2013 / 2014/30/EU - Electromagnetic Compatibility) and EN 12966 (From OEM)
Product Certifications	1. IP 65 Testing (IEC 0529:1989+AM1:1999) 2. Vibration Test (QM: 333:2010) Note; OEM should submit all the Certificate from NABL Accredited LAB before the date of publishing of RFP. All test should be approved by NABL for conducting in their lab.
Ingress Protection	IP65 Front / IP65 Enclosure

HDMI Live video box with SIM 4G/5G Controller	
Parameter	Minimum Specification Requirement
Processor (CPU)	
SoC	Rockchip RK3568J-Industrial-grade SoC
CPU Core	4× Cortex-A55 @ 1.8 GHz, Quad-core ARM
NPU	1 TOPS , Supports INT8 / INT16 / FP16 / BFP16 mixed operation
VPU – Video Decoding (Hard)	
H.264 / H.265 / VP9	Up to 4096×2304 @ 60 fps
VP8	Up to 1920×1088 @ 60 fps
VC1 / MPEG-4 / MPEG-2 / MPEG-1	Up to 1920×1088 @ 60 fps
H.263	Up to 720×576 @ 60 fps
VPU – Video Encoding	
H.264 / AVC & H.265 / HEVC	Up to 1920×1080 @ 60 fps
Memory	
RAM	4 GB DDR4
Flash	32 GB eMMC
Power & Physical	
Voltage Input	DC 24 V (range: 9 V – 36 V)
Operating Temp.	-40°C to +75°C
Dimensions	190 × 140 × 45 mm
Cooling	Passive (fanless)
Net Weight	1.32 Kg
HDMI Live Video Controller	
RS485	Minimum 2 ports
RS232	minimum 4 ports
Ethernet	minimum 2 Gigabit port expandable up-to 4
CAN	2
DI (Digital In)	8 contact
DO (Digital Out)	6 (30 VDC / 3 A)
mSATA	1 (SATA 3.0 storage expansion)
TF Card	1 (Supports storage expansion & OS image flashing)
4G	mini PCIE slot EC200N / EC20 / EC25 / EG25
Wi-Fi	1
HDMI	1 Port
USB	2 no USB 2.0 Host Compatible with TP, U-disk, mouse, keyboard
RTC	Timing accuracy: ±1 min/month

Parameter	Minimum Specification Requirement
Buzzer	Supported
Super Capacitor	Maintains Ethernet / 4G / Wi-Fi online for 5 s after power failure
Debug Port	RJ45 connector

Supports multiple interface like TCP/IP, Fiber Optic, Wireless 4G, Serial RS232 & Front Panel

Real Panel	
Parameter	Minimum Specification Requirement
ETHERNET	Gigabit Ethernet port
Wi-Fi AP	Wi-Fi antenna port
HDMI IN	HDMI 1.4 input
LEDOUT	Output Ethernet port
PWR	Power input

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