

The Multiboard Prism is a Google EDLA-certified 4K interactive display running Android 14 (upgradable to Android 16), available in 65", 75" and 86". It integrates a 48 MP AI camera, an 8-microphone far-field array, 50-point touch and a 2.1 speaker system in a single all-in-one device, with full Microsoft 365 and Google Classroom support.



SCREEN SIZE	SKU	EAN
65"	PSMB018R650	8595248161566
75"	PSMB018R750	8595248161580
86"	PSMB018R860	8595248161597

TECHNICAL SPECIFICATION

	PSMB018R650 65"	PSMB018R750 75"	PSMB018R860 86"
POWER SUPPLY			
INPUT			
Rated input voltage, V	100–240 V (AC)		
Input frequency, Hz	50/60 Hz		
Rated input current, A	4.5 A	5.0 A	6.0 A
Rated input power, W	450 W (max.)	500 W (max.)	600 W (max.)
Rated standby power, W	< 0.5 W		
OUTPUT			
USB (A) rated output voltage, V	5 V rated. ± 0.25 load regulation tolerance		
USB (A) rated output current, A	1 A		
USB (A) rated output power, W (max)	5 W		
USB (B) rated input voltage, V	5 V		
USB (B) rated input current, A	0.5 A		
USB (B) rated input power, W (max)	2.5 W		
Rear USB (C) rated output voltage, V	5 V rated. ± 0.25 load regulation tolerance		
Rear USB (C) rated output current, A	3.0 A		
Rear USB (C) rated output power, W (max)	15 W		
Front USB (C) rated output voltage, V	(5 V USB mode) 5 V-rated. ± 0.25 load regulation tolerance		
Front USB (C) rated output current, A	3 A (in 5 V USB mode)		
Front USB (C) rated output power, W (max)	15 W MAX for USB peripherals 65 W MAX for PD peripherals		
Front USB (C) power delivery table, V, A, W (max)	5 V-3 A; 15 W 9 V-3 A; 27 W 12 V-3 A; 36 W 15 V-3 A; 45 W 20 V-3.25 A; 65 W		
OVERCURRENT PROTECTION			
	900 mA (USB (A) and USB (C) logic ports), Front USB-PD output monitored to the max current of each PDO.		

SCREEN FEATURES

Technology	LCD, touch (infrared)		
Matrix type	VA		
Backlight	D-LED		
Diagonal (inch, cm)	65" / 163.89cm (Active area)	75" / 189.34cm (Active area)	86" / 217.4cm (Active area)
Resolution (px)	3840×2160, 4K/UHD		
Aspect ratio	16:9		
Viewing angles (vertical/horizontal) (degrees)	178°/178°		
Maximum Brightness (cd/m ²)	450 cd/m ² (min.) / 500 cd/m ² (typ.) / 520 cd/m ² (peak.)		
Contrast (static/dyn.)	4000:1 (typ.) / 100000:1 (dyn.)		
NTSC coverage	85%		
Color depth (bits, tones number)	1.07B (8bit+FRC) = (10bit)		
Pixel Pitch	0.3720(H)×0.3720(V)	0.4296(H)×0.4296(V)	0.4935(H)×0.4935(V)
View Area (mm)	1428.48(H)×803.52(V)	1649.664(H)×927.936(V)	1895.04(H)×1065.96(V)
Refresh rate, Hz	60 Hz		
Response time, ms	6.5 ms	6.5 ms	8.0 ms
Multitouch support (incl. qty of simultaneous touch points)	up to 50 simultaneous touch points for Android and Windows OS		
Touch accuracy	±1 mm		
Touch response time	3 ms		
Touch resolution	32768×32768		
Antiglare	Yes		
Blue-light filter	Yes		
Screen transparency	> 88%		
Screen haze	4-8%		
Life time (hours)	≥ 50,000 hrs		

HARDWARE CONFIGURATION

CPU (model; cores qty; frequency, GHz)	Chipset: Rockchip RK3576; ARM64-v8a; 8-core architecture: ARM Cortex-A72 2.2 GHz (×4), ARM Cortex-A53 2.0 GHz (×4)
GPU (model; frequency, GHz)	ARM Mali G52 MC3 GPU (1000 MHz Max)
RAM installed (type; capacity, GB)+max possible amount	8 GB (LPDDR5 soldered, non-upgradeable)
ROM installed (type; capacity, GB)+max possible amount	128 GB (eMMC5.1 soldered, non-upgradeable)

BUILT-IN CAMERA

Sensor type, size (inch)	CMOS 1/2"
Resolution (MP)	48 MP sensor
Frame rate (fps)	30 fps
Viewing angles (vertical/horizontal/diagonal) (degrees)	4:3 mode: DFOV 114.9±3°, HFOV 102.1±3°, VFOV 85.7±3° 16:9 mode: DFOV 106.9±3°, HFOV 99.7±3°, VFOV 67.4±3°
Resolution Modes	STILLS: 16:9 mode: 8.3, 3.7, 0.9 MP; 4:3 mode: 0.5, 0.1 MP VIDEO: MJPEG; 3840×2160p 30fps 4K/UHD, 1920×1080p 30fps FHD, 1280×720 30fps HD
Focusing distance	AF; 60 cm to ∞
Face or voice tracking support	System-wide setting. Subject tracking with optional windowed general view

BUILT-IN MICROPHONES

Microphone elements, qty	8 pcs.
Sound capture radius (m)	8 m. Voice pickup at ±45° perpendicular to the array

BUILT-IN SPEAKERS

Configuration (mono/stereo; 2.0, 2.1, etc)	2.1 system
Speakers, qty	high-frequency speakers (tweeters) ×2, low-frequency subwoofer (×1)
Output power for each speaker (W)	20.0 W
Subwoofer output power (W)	20.0 W × 1

CONNECTORS

Memory card slot (incl. supported card type, max capacity)	MicroSD (TF) card slot, up to 512 GB. Slot not accessible through the I/O connectors
USB (A) (version, qty)	Rear: USB (A) 3.2 Gen 1×1 (×3) Front: USB (A) 3.2 Gen 1×1 (×2)
USB (B) (version, qty)	Rear: USB (B) (×1) Front: USB (B) (×1); over HDMI allows touch screen usage, and pass through of camera, microphones, and USB drives
USB (C) (version, qty)	Rear: USB (C) 3.2 Gen 1×1 (×1) Front: USB (C) 3.2 Gen 1×1 with PD (×1)
HDMI IN (version, qty)	Rear: HDMI (IN) (×2) Front: HDMI (IN) (×1)
HDMI OUT (version, qty)	Rear: HDMI (OUT) (×1)
DisplayPort IN (version, qty)	Rear: DP1.2 (×1)
Audio OUT (connector type, qty)	1 (Rear. Line OUT. 3.5 mm)
MIC IN (connector type, qty)	1 (Front Mic in 3.5 mm)
LAN (connector type, qty)	RJ45 ×2 (1GbE. LAN IN, LAN OUT)
COM port (connector type, qty)	RS232 (DB9)
JAE (connector type, qty)	1 (OPS connector) JAE (80 pin)
VGA IN (connector type, qty)	1
VGA Audio IN 3.5mm	1
SPDIF, out	1
AC IN (connector type)	1× IEC-C14
Others	Removable Wi-Fi/BT card

NETWORK FEATURES

Wi-Fi protocol, frequency range (incl. EIRP value, dBm)	Dual WiFi network adapters. Wi-Fi 6: IEEE 802.11a/b/g/n/ac/ax Wi-Fi 5: IEEE 802.11a/b/g/n/ac 2.4G: 2400~2483.5 MHz; 5G: 5.15~5.25 GHz, 5.25~5.35GHz, 5.47~5.725GHz, 5.725~5.850GHz. EIRP: below 20 dBm; (100 mW)
BT version (incl. EIRP value, dBm)	BT 5.2. EIRP max: 8.69 dBm (7.40 mW) LE 1M Mode 8.23 dBm LE2M Mode 8.25 dBm GFSK Mode 8.40 dBm 8DPSK Mode 8.69 dBm
BT frequency bands	IMS 2.4G: 2402~2483.5 MHz; BDR/EDR 1MHz FHSS; BLE adv. Bands 37/38/39, 2MHz FHSS
BT effective range, m	BT class 2. 10 m
Ethernet channel capacity, Mbps	10/100/1000 Mbps

SOFTWARE CONFIGURATION

Operating system compatibility (all supported versions), specify if OS pre-installed	Android 14 (EDLA) Upgradable to Android 16
Pre-installed software	Google Play, Chrome, Drive, Gmail, Meet, YT Music, YouTube, Maps, Whiteboard, OfficeSuite, Vote, mozaBook, Mozaik3D, Screen Sharing, File Manager, Screen Recorder
Audio codec	APE/MIDI/MP3(MPEG Audio layer3)/MusePack SV8/ Vorbis(Ogg Vorbis)/OPUS/FLAC/PCM S8VX/PCM S16 LE/ PCM S16 BE/PCM S24 LE/PCM S32 LE/LPCM(PCM A-Law G.711)/ LPCM(PCM μ-Law G.711)/IMA ADPCM/TTA(True Audio Lossless)/

CONTROL OPTIONS

Manual control	Yes (buttons)
Remote control	Yes
Remote control type	IR. Power, Navigation, source selection, and volume control
Remote control Battery type, qty	AAA (x2)
Buttons on the casing and their functions	Power/STBY AI trigger (Google Gemini launch in supported regions / OPS with Windows 11: Copilot) Mute, Home, Menu Android Standard. IR sensor for remote / Ambient light sensor for screen brightness
LED indicators on the casing and indication statuses	Standby Mode: red light Working Mode: white light SW update: Blinking white LED Inside the Power button (the standby logo is transparent)

RTC BATTERY

RTC battery (qty, type of battery)	CR2032-T (Li/MnO2) coin cell. 3V 220 mAh typ. ≥925 hours rated
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PHYSICAL FEATURES

Device net weight, kg	34.8 ± 1	45.3 ± 1	58 ± 1
Accessories net weight, kg	2.5		
Device material (incl. casing, screen)	Galvanized aluminum and steel frame, plastic IR sensor bars and buttons, tempered glass		
Device dimensions (L×W×H), mm	1489.8×102.5×924.7	1711.8×102.7×1048.8	1958×102.7×1187.2
Device color	White, black		
Device IP class	IP40		
Device IK class	IK09, (Hardness 7H (mohs) / 9H (pencil), 3.2 mm tempered glass)		
Operation environment (indoor/outdoor)	Removable Wi-Fi/BT card		

OPERATION CONDITIONS

Temperature, °C	–10...+40 °C
Relative humidity, %	20–93 % (non-condensing)

STORAGE CONDITIONS

Temperature, °C	–20...+60 °C
Relative humidity, %	20–93 % (non-condensing)

INSTALLATION TYPE

Wall mount / hanging support - not provided

SUPPORTED VESA MOUNT SIZE (if available)

600×400 mm	800×400 mm	800×400 mm
M8 screws, 20 mm (4 pcs.)	M8 screws, 20 mm (4 pcs.)	M8 screws, 20 mm (4 pcs.)

HEAT DISSIPATION

Passive heat dissipation with rear vents

NOISE LEVEL, dB (at 1 m distance)

About 45 dB front direction

WARRANTY PERIOD

36 months

PACKAGE CONTENTS

Passive writing pens (6 pcs.)
Remote control (without battery)
USB (A/B) cable (5 m)
USB (C/C) cable (2 m)
HDMI cable (5 m)
Power cable (E/F plug type, 3 m)
Power cable (G plug type, 3 m)
Quick Start Guide

LOGISTICS INFO

Pack width, mm	1640	1859	2119
Pack depth, mm	1030	1160	1290
Pack height, mm	185	205	228
Pack gross weight(brutto), kg	44.45	58.36	73
Pack net weight (netto), kg	34.8	45.3	58
Number of devices in pack	1	1	1