

OMNI-TP-SL50

5.5" Ultra-Slim, Wall-Mount, Professional-Grade,
App-Defined Touch Panel



The BSS OMNI-TP-SL50 is a flexible, professional-grade 5.5" touch panel built on an app-based architecture and designed for adaptable deployment across modern AV environments. It delivers a consistent, user-centric control experience that can be tailored to the specific needs of each space.

Selectable App Personas include:

- **AVX Control** – a dedicated platform for user interfaces developed with AVX Architect
- **Any-App** – install your own Android app
- **Samsung VXT** – digital signage player
- **Web Kiosk** – a full-screen, frameless interface for web applications
- **Zoom Rooms Controller** – create a dedicated Zoom Rooms appliance
- **Book Scheduling** – a dedicated stand-alone room scheduling touch panel
- **G5 Control** – a dedicated host for user interfaces developed with TPDesign5

The OMNI-TP-SL50 is optimized for clean, in-wall installations using standard single-gang electrical boxes. Its minimalist design allows it to blend effortlessly into corporate, hospitality, and collaboration environments while remaining instantly accessible and responsive to users.

Beyond its adaptability, the OMNI-TP-SL50 is engineered for intelligent interaction. Integrated proximity and ambient light sensors enhance responsiveness and usability, while customizable side LEDs, with over a million color options, provide clear visual feedback and status indication.

As part of the broader BSS OMNI ecosystem, and enabled by AVX Suite, the OMNI-TP-SL50 delivers a unified and adaptable control platform, enabling a consistent user experience while scaling across environments.

| FEATURE HIGHLIGHTS

- **App-Defined Experience** – Pre-loaded App Personas transform panel to serve the unique needs of any user
- **Quick Launch Sidebar** – Effortlessly transition between multiple apps
- **Ultra-Slim Design** – optimized for in-wall installations, utilizing standard single-gang electrical boxes
- **Advanced Security** – Supports HTTPS, 802.1X, TLS 1.3, and Modern Authentication or OAuth 2.0
- **Any-Color Side LEDs** – Over 1 million programmatically selectable colors
- **Setup Wizard** – Simplified out-of-box setup experience
- **Enabled by AVX Suite**

| GENERAL SPECIFICATIONS

TOUCH SCREEN DISPLAY	
Display Size	5.5" Diagonal
Display Type	TFT-LCD, IPS
Resolution	720x1280
Aspect Ratio	9:16 Portrait
Brightness	350 nits [cd/m²]
Contrast Ratio	>800:1
Illumination	LED Backlight
Touch Overlay	Capacitive touch; >5 points touch panel with palm rejection and wet finger operation. Anti-fingerprint; Anti-microbial coating.
Viewing Angle	> 80° / 80° / 80° / 80°
MEMORY	
RAM	4GB, LPDDR4
Storage	32 GB eMMC
CONNECTIONS	
Ethernet	RJ-45, POE 802.3af, 15.4W
USB	USB Micro, USB 2.0 OTG
HARDWARE BUTTONS	
Function Button	Rectangular Flush Button • Press & release: Display On/Off • Press & hold (4 sec): Return to Primary App • Press & hold during startup: Safe Mode
System OS Button	Pin-hole Button • Press & release: Open Panel Settings • Press & hold (4 sec): Reboot
Reset Button	Rear of unit • Press & hold (20 sec): Factory Reset
Side LEDs	Left & right 0-255 level for each Red, Green, & Blue

| GENERAL SPECIFICATIONS

SENSING	
Ambient Light Sensor	Yes, Supports Adaptive Brightness
Proximity Sensor	Yes, Supports Wake on Approach
AUDIO	
Speakers	1 x 1W
Microphone	Dual
POWER	
POE	RJ-45, POE 802.3af, 15.4W
DC In	N/A
CERTIFICATIONS	
ESD	Requirement should meet required certification (15KV air; 8KV conduct)
Compliance	UL, CE, CB, FCC Class B (-5dB)
ENVIRONMENTAL	
Operation temp.	32°F - 104°F (0°C - 40° C) 5% - 85% Humidity
Storage temp.	4°F - 140°F (-20°C - 60° C) 5% - 90% Humidity
GENERAL	
Product Dimensions (HWD)	5 1/16" x 3 3/16" x 1" (143.4 mm x 80.8 mm x 24.3 mm)
Product Weight	0.38 lb (173 g)
Included Accessories	Mounting Plate Mounting Hardware Set Screw

