

OMNI-TP-80

8" Professional-Grade, App-Defined Touch Panel



The BSS OMNI-TP-80 is a flexible, professional-grade 8" 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

Complementing this flexibility is a versatile mounting system designed to accommodate diverse installation requirements. The OMNI-TP-80 supports wall, glass, and VESA mounting, with optional tabletop accessories enabling consistent deployment across environments.

The OMNI-TP-80 further enhances the user experience through integrated sensing and communication capabilities, including speakers, microphones, a front-facing camera, NFC, proximity detection, and ambient light sensing, enabling responsive and context-aware interaction.

As part of the broader BSS OMNI ecosystem, and enabled by AVX Suite, the OMNI-TP-80 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
- **Mounting Flexibility** – Included universal mount provides wall, glass, and VESA-mounting capabilities. Optional tabletop mounting accessories available.
- **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
- **Communication-enabling Technologies** – Speakers, microphone, and Front-facing HD camera
- **Intelligence-enhancing Technologies** – NFC Read/Write, Proximity Sensor, Ambient Light Sensor
- **Setup Wizard** – Simplified out-of-box setup experience
- **Enabled by AVX Suite**

| GENERAL SPECIFICATIONS

TOUCH SCREEN DISPLAY	
Display Size	8" Diagonal
Display Type	TFT-LCD, IPS
Resolution	1280x800
Aspect Ratio	16:10 Landscape
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 Type C OTG, USB Type 2.0
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 0-100 level for each Red, Green, & Blue

| GENERAL SPECIFICATIONS

CAMERA	
Camera	5MP front-facing, with Fixed Focusing Lens
SENSING	
NFC	Yes, Supports Read & Write
Ambient Light Sensor	Yes, Supports Adaptive Brightness
Proximity Sensor	Yes, Supports Wake on Approach
AUDIO	
Speakers	2 x 2W
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 ⁷ / ₈ " x 7 ¹⁵ / ₁₆ " x ⁷ / ₈ " (148.9 mm x 201.2 mm x 21.7 mm)
Product Weight	1.17 lb (532 g)
Included Accessories	Mounting Plate Adhesive Pad Set Screw Installation Template

