

Smart Head for Ultra Slim Trak Portal



Plug and Play Intelligent Computer for Ultra Slim Trak Portals

As an accessory to the Ultra SlimTrak™ Portal solution, a portal can be retrofitted with a full touch screen computer running Android that allows users to directly interact with the portal for entrance door, event management and informational kiosk applications. The Smart Head attaches to the portal using provided built in mounts in the portal and provides a seamless integration to an existing portal solution.

High Performance Android Computer and Touch Screen

The Smart Head incorporates a quad processor, 2GB memory configuration with dedicated graphics engine to support the any Android application whether provided by Venture Research or created by and any developer that develops Android application. 512Mb of Flash memory an integrated 64 MB SD card and built in annunciator round out the processor to provide dedicated application support. The touch screen is a high resolution capacitive implementation that overlays the 1440 x 768 resolution display.

Direct Interface to Portal RFID / BLE Reader

The Smart Head has built in support to directly plug into an existing Portal solution using the supplied CAN Bus interface. An Android version of the Venture Research RFID Service provides a programmer a direct interface to control every facet of the RFID / BLE components of the reader in the same manner as the Linux implementation on all other Venture Research readers.

Integrated Badge Reader Support

The Smart Head has an integrated UHF or HF Badge reader that allows close proximity badging to allow personalized interaction with the Portal. Where the RFID and BLE components of the Portal reader are used for zonal reading, the badge reader ensures that only one user is interacting with the Smart Head. This is useful for security applications or allowing a user direct usage to their Social Media accounts.

Side LEDs Provide Visual Alerting

Incorporated in the Smart Head are fully programmable LED indicators that allow visual prompting from far away. This can inform of alerts to draw attention to the portal, provide workflow and prompting feedback or general operation of the Portal.

Product Features/Benefits

Features	Benefits
Direct Interfacing with the Ultra Slim Trak Portal Solution	Ability to retrofit existing installations of Ultra Slim Trak Portals and incorporate a Touch Screen Android Computer where required
Powerful Commercial Android Implementation	There are no additional licensing costs associated with the use of the Android Operating System
The processor, screen and touch screen are commercial grade components not consumer table components	High reliability and impact resistant. Can be provided with waterproofing for outdoor applications
Built in Badge Reader	Provides close proximity verification of users and Portal activity
Integrated Side LEDs	Provides visual prompting to direct attention to the Portal
Built in 802.11 b/g/a/n WiFi Support or Ethernet	Versatile communication options

Applications

Door Security
Interactive Kiosks
Event Management
Check in / Check out interfaces

Built In Remote Diagnostics

The Smart Head has built in “phone home” support to allow continuous monitoring for remote or Cloud applications. Along with the features provided in the Smart Head, the RFID and BLE components of the Portal can also be remotely monitored. This feature is used to support Venture Research’s 24x7x365 support infrastructure for non-stop operation.

Specifications



Touch Screen/Display

24 Bit LVDs

1440 x 768 display

HDMI output

Capacitive Touch Screen

Communications

10/100/1GB Ethernet

802.11 b/g/a/n - Mimo

Bluetooth 4.0/BLE

Cellular Optional (2)

CAN BUS Integrated

RS232 Serial Port

Electrical

12V dc .5 A

POE Support

Peripheral Support

Audio Codec w/
Integrated Speaker

Programmable LED RGB
Visual Indicators on side

4 input, 8 output
conditioned GPIO

USB 2.0 OTG

USB 2.0 A - 2 Ports

PWM Driver

32 GB Class 10 SD Card

Temperature Monitor
Integrated

RFID Support

Built in Badge reader
support - specify UHF or
HF(1)

Smart Head Options

Options	Part Number
Camera Module	USLIMTRK-HEAD-CAM VR102819
Waterproofing	USLIMTRK-HEAD-NEMA VR102820
Power Supply 24v - 110 - 220	USLIMTRK-HEAD-PS VR102824
UHF Badge Reader	USLIMTRK-HEAD-UHF VR102822
HF - HID Badge Reader	USLIMTRK-HEAD-HF-HID VR102821
HF - HID Badge Reader - Legic	USLIMTRK-HEAD-HF-LEGIC VR102823
Standalone Lower CAP	USLIMTRK-HEAD-LOW-CAP VR102825

Mounting

Enclosure	High Impact
Ultra Slim Trak	Directly interfaces to an Ultra Slim Trak Portal Solution with built in mounts
Stand Alone	With lower cap, the Smart Head can be used as a Stand Alone Commercial Android/ Touch Screen Computer

Notes:

1. Other specialty readers are available
2. Cellular Optional with USB 4 GB Stick
3. Backup Battery Support is available as an Ultra Slim Trak
4. 0-70 degrees C

Warranty

- 1 year parts and labor
- NEMA4/IP65 Rated
- Made in the USA
- 24x7x365 Real-time customer support

