

999.00 EUR  
incl. 19% VAT, plus [shipping](#)



**Support:** [Specifications](#)

Enhance commercial fleet safety and efficiency with the AMOS-825 system. Powered by a 1.0GHz NXP i.MX 6Quad Cortex-A9 quad-core SoC, this fanless small form factor system has been specifically designed for demanding compute-intensive fleet management, navigation and infotainment applications. Featuring a 1.0GHz NXP i.MX 6Quad ARM Cortex-A9 quad-core SoC, the VIA AMOS-825 delivers a highly-capable and power-efficient system for compute- and multimedia-intensive in-vehicle infotainment and navigation applications.

With its 3G networking support (provided separately through an optional expansion card) and its rich connectivity, the AMOS-825 can serve as a powerful data collection and control center on the go within vehicles. GPS, Wi-Fi, Ethernet, USB, COM, and HDMI ports make connecting devices very easy. A completely fanless system with a ruggedized design and automotive compatible power options make it into your one-stop solution for in-vehicle applications.

|                     |                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Name          | AMOS-825                                                                                                                                                                      |
| Processor           | 1.0GHz NXP i.MX 6Quad Cortex-A9 quad-core SoC                                                                                                                                 |
| System Memory       | 1GB DDR3 SDRAM onboard                                                                                                                                                        |
| Storage             | 16GB eMMC Flash memory                                                                                                                                                        |
| Boot Loader         | 4MB SPI Flash ROM<br>Vivante GC2000 GPU<br>3 independent, integrated 3D/2D and video graphics processing units                                                                |
| Graphics            | Graphics engine supporting OpenGL® ES 2.0, OpenCL and OpenVG™ 1.1 hardware acceleration<br>Supports MPEG-2, VC-1 and H.264 video decoding up to 1080p<br>Supports SD encoding |
| LAN                 | Micrel KSZ9031RNX Gigabit Ethernet transceiver with RGMII support                                                                                                             |
| Wi-Fi/Bluetooth/GPS | IEEE 802.11b/g/n Wi-Fi<br>Bluetooth 4.0<br>MAX-7 u-blox 7 GPS/GNSS                                                                                                            |
| Audio               | NXP SGTL5000 low power stereo codec                                                                                                                                           |
| USB                 | SMSC USB2514 USB 2.0 high-speed 4-port hub controllers                                                                                                                        |
| CAN                 | TI SN65HVD1050 EMC optimized CAN transceiver                                                                                                                                  |

|                                    |                                                                                                                                                                                                                                                                                                              |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Expansion I/O                      | <ul style="list-style-type: none"> <li>1 miniPCIe slot</li> <li>1 Micro USB 2.0 OTG port</li> <li>1 9-pin D-sub connector (supports 2 CAN bus and 1 COM TX/RX for debug)</li> <li>1 SCSI 50-pin D-sub connector (Backlight power, Dual-channel LVDS, 4 GPIO, I<sup>2</sup>C, Line-out and Mic-in)</li> </ul> |
| Front Panel I/O                    | <ul style="list-style-type: none"> <li>1 Mic-in</li> <li>1 Reset button</li> <li>2 LEDs for power &amp; WPAN/WWAN/WLAN status</li> <li>1 Antenna hole</li> <li>1 4-pole Phoenix DC jack</li> <li>2 USB 2.0 ports</li> </ul>                                                                                  |
| Back Panel I/O                     | <ul style="list-style-type: none"> <li>1 Gigabit Ethernet port</li> <li>2 Antenna connectors for Wi-Fi/BT and GPS</li> </ul>                                                                                                                                                                                 |
| Power Supply                       | 9 ~ 36V DC-in (typical: 7W)                                                                                                                                                                                                                                                                                  |
| Operating System                   | Android 6.0                                                                                                                                                                                                                                                                                                  |
| VIA Smart ETK                      | Watchdog timer, CAN bus                                                                                                                                                                                                                                                                                      |
| Operating Temperature              | 0°C ~ 60°C                                                                                                                                                                                                                                                                                                   |
| Operating Humidity                 | 0% ~ 90% @ 45° C (non-condensing)                                                                                                                                                                                                                                                                            |
| Vibration Loading During Operation | With onboard eMMC 7Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1hr/axis                                                                                                                                                                                                                                         |
| Shock During Operation             | With onboard eMMC 70G, IEC 60068-2-27, half sine, 11ms duration                                                                                                                                                                                                                                              |
| Bottom Opening Covers              | Open window with removable door plate to access Micro SD and miniPCIe slots                                                                                                                                                                                                                                  |
| Mechanical Construction            | Aluminum top chassis housing Metal chassis housing Dual removable front & rear metal face plate                                                                                                                                                                                                              |
| Mounting                           | Wall/DIN Rail/VESA mountable                                                                                                                                                                                                                                                                                 |