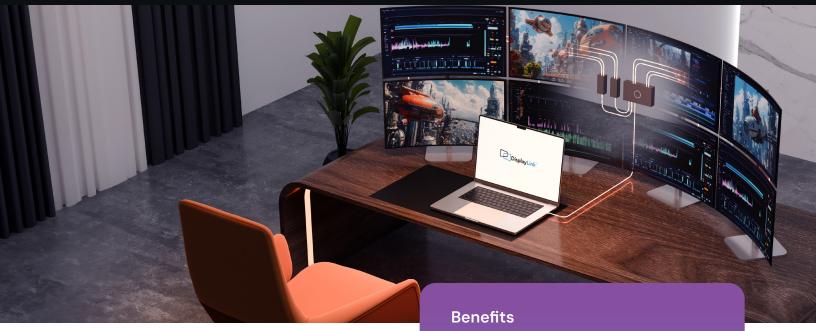


DL-7xxx Smart Universal Docking Station SoC Product Brief



The Synaptics® DL-7xxx series is a universal USB smart dock-on-a-chip that drives up to four displays simultaneously from any computer with any operating system. It enables cost-effective smart docks with rich graphics and comes with integrated digital audio, up to 2.5G Ethernet, and an optional IoT connection for remote monitoring and management services. The IoT connection includes the ability to display content on the monitors without a computer attached for features such as splash screen/OSD.

- Universal: any OS
- Can drive displays, even without a PC
- · Low system cost
- Industry-leading security
- Enables rich graphics experience

Applications

- Universal USB docking stations and monitor docks
- Smart IoT docks and displays
- PCle video port expansion cards
- Universal graphics adapters





LOW SYSTEM COST



ANY COMPUTER, ANY OS



ENABLES NEW RICH GRAPHICS EXPERIENCES



BUILT-IN SECURITY

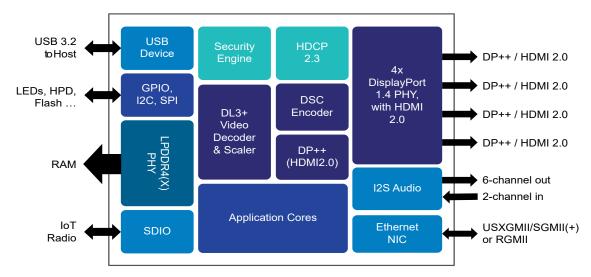
Features

- OEM and IT personalized branded splash screens
- Smart IoT option: insights, remote management, and messaging. Local on-screen debug details and info splash screens for user self-help
- Enterprise Ethernet: Wake-up on LAN, PXE boot, host-based MAC address/MAPT, VLAN
- 15.5 x 15.5 x 1.320 mm
- DisplayLink Manager app: monitor and dock settings, debug information

- fcCSP 30 x 30 matrix 524L, RoHS, and industry green performance
- 0.5 mm lead pitch, ball pattern supports standard PCB fab rules (no HDI rules required)
- Flexible video resolution within DP1.4 bandwidth, up to:
 - 1x 10k Super UW 10240 x 2880 @ 60 Hz
 - 2x 8K 7680 x 4320 @ 60 Hz
 - 4x 4K/UHD 3840/4096 x 2160 @ 120 Hz
 - 1x 4K @ 144 Hz + 3x 4K @ 120 Hz

Synaptics DL-7xxx

Smart Universal Docking Station SoC



System Block Diagram





Copyright

Copyright® 2022-2025 Synaptics Incorporated. All rights reserved

Trademarks

Hademinarks Synaptics, the Synaptics logo, DisplayLink, and the DisplayLink logo are trademarks or registered trademarks ol Synaptics Incorporated in the United States and/or other countries.

All other trademarks are the properties of their respective owners

Contact

Visit our website at www.synaptics.com to locate the Synaptics office nearest you

Notice

Use of the materials may require a license of intellectual property from a third party or from Synaptics. This document conveys no express or implied licenses to any intellectual property rights belonging to Synaptics or any other party. Synaptics may, from time to time and at its sole option, update the information contained in this document without pattern.

INFORMATION CONTAINED IN THIS DOCUMENT IS PROVIDED "AS-IS," AND SYNAPTICS HEREBY DISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES. OF MORNING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS. IN NO EVENT SHALL SYNAPTICS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED IN THIS DOCUMENT, HOWEVER CAUSED AND BASED ON ANY THEORY OF LIABILITY, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, AND EVEN IF SYNAPTICS WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. IF A TRIBUNAL OF COMPETENT JURISDICTION DOES NOT PERMIT THE DISCLAIMER OF DIRECT DAMAGES OR ANY OTHER DAMAGES, SYNAPTICS' TOTAL CUMULATIVE LIABILITY TO ANY PARTY SHALL NOT EXCEED ONE HUNDRED US. DOLLARS.