

DE14000

Video Switching Products

Programmable • Switchable • Customizable • Adaptable

Products Overview

The DE14100, DE14200, and DE14300 provide advanced video switching and distribution solutions.

- The DE14100 switches four component video inputs to a single output and supports high-definition HDTV resolutions up to 1080i. It is programmable through Ethernet, USB, RS-232, and GPIO interfaces and offers easy operation with user buttons.
- The DE14200 is a high-performance distribution amplifier that distributes one component video input to four outputs, ensuring proper buffering and isolation. It is also programmable via Ethernet, USB, RS-232, and GPIO interfaces.
- The DE14300 switches 4 DisplayPort inputs to 1 DisplayPort output and offers a wide range of programming options. It provides flexible control through user buttons and interfaces such as Ethernet, USB, and RS-232.



Product Family

Product Definition

DE14100	Component Video Switch 4x1
DE14200	Component Video Distribution Amplifier 1x4
DE14300	DisplayPort Video Switch 4x1

Features

- ⇒ 100Mbps ethernet interface
- ⇒ USB2.0 full-speed interface
- ⇒ RS-232 interface
- ⇒ Discrete I/O control
- ⇒ User button control



- ⇒ USB type-C or barrel jack power in (14100, 14200)
- ⇒ Accepts 480i, 480p, 576i, 576p, 720p and 1080i resolutions (14100, 14200)
- ⇒ DisplayPort 1.3/1.4 (14300)
- ⇒ Compatible with IEC 60068-2-1 / IEC 60068-2-2 / IEC 60068-2-78 / IEC 60068-2-27 / IEC 60068-2-64 / EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11 / FCC 47 CFR Part 15B / ICES-001 standards
- ⇒ Applications:
 - Video Switching
 - Component Video, DisplayPort Testing

Comparison

General Specifications (14100, 14200)

Specification	DE14100	DE14200
Video Input	4 Composite Videos (YPbPr) 1Vpp/75Ω on a BNC connector	1 Composite Video (YPbPr) 1Vpp/75Ω on a BNC connector
Video Output	1 Composite Video (YPbPr) 1Vpp/75Ω on a BNC connector	4 Composite Videos (YPbPr) 1Vpp/75Ω on a BNC connector
Maximum Video Output	2Vpp	2Vpp
Video Bandwidth(-3dB)	750MHz (2Vpp)	350MHz (2Vpp)
Differential Gain Error	0.02%	0.02%
Differential Phase Error	0.02°	0.03°
K-Factor	<0.03%	<0.04%
Crosstalk	-85dB@5MHz -58dB@100 MHz	-87dB@10MHz
Coupling	DC	DC
Control Mode	Local + Remote	Local + Remote
Control Connector	DB9, RJ45	DB9, RJ45
Power Input	USB Type-C or Barrel Jack 2.5x5.5mm	USB Type-C or Barrel Jack 2.5x5.5mm

Electrical Specifications (14100, 14200, 14300)

Specification	DE14100	DE14200	DE14300
Input Voltage	Min: 5V Typical: 12V Max: 24V	Min: 5V Typical: 12V Max: 24V	Min: 6V Typical: 24V Max: 36V
Power Consumption	12V DC, 205mA	-12V DC, 415mA	-
Reverse Voltage Protection	Max: 40V	Max: 40V	Max: 200V
Ethernet	Max: 100Mbps	Max: 100Mbps	Max: 100Mbps
RS232	Max: 250kbps	Max: 250kbps	Max: 250kbps
USB2.0	Max: 12Mbps	Max: 12Mbps	Max: 12Mbps
Discrete I/O VIH	Min: 1.8V Typical: 3.3V Max: 3.6V	Min: 1.8V Typical: 3.3V Max: 3.6V	Min: 1.8V Typical: 3.3V Max: 3.6V
Discrete I/O VIL	Min: -0.3V Typical: 0V Max: 1.1V	Min: -0.3V Typical: 0V Max: 1.1V	Min: -0.3V Typical: 0V Max: 1.1V



Physical Specifications (14100, 14200, 14300)

Specification	DE14100	DE14200	DE14300
Dimensions	215mm x 88.5mm x 88.5mm <i>(Interface connectors are not included)</i>	215mm x 88.5mm x 88.5mm <i>(Interface connectors are not included)</i>	214.6mm x 100mm x 43.25mm
Power Connector	PN: CUI / PJ-090BH 2.50mm ID (0.098") 5.50mm OD (0.217") <i>(Mating Connector, recommended: CUI / PP3-002B)</i>	PN: CUI / PJ-090BH 2.50mm ID (0.098") 5.50mm OD (0.217") <i>(Mating Connector, recommended: CUI / PP3-002B)</i>	PN: CUI / PJ-202BH <i>(Mating Connector, recommended: CUI / PP3-002B)</i>
RS232 & I/O Connector	PN: Kycon, Inc. / K88X-ED-9S-BRJ <i>(Standard DSUB9 mating connector can be used)</i>	PN: Kycon, Inc. / K88X-ED-9S-BRJ <i>(Standard DSUB9 mating connector can be used)</i>	PN: Assmann / A-DF 09 A/KG-T4S <i>(Standard DSUB9 mating connector can be used)</i>

Electrical Specifications (14100, 14200, 14300)

Specification	Condition	Value
Operating Humidity	Relative, non-condensing	10% - 90%
Storage Humidity	Relative, non-condensing	5% - 95%
Operating Temperature	Operational	0°C - 40°C
Storage Temperature	Non-operational	-40°C - 85°C

Please contact us for the video switching products and your special needs via support@deico.com.tr.





**Component Video
Switch 4x1
DE14100**



**Component Video
Distribution Amplifier
1x4
DE14200**



**DisplayPort Video
Switch 4x1
DE14300**

