



mod.outXX

Output Cards for Modular Matrix Switches

mod.outHDBT

HDBaseT output card



- 70 m reception of video, IR, RS232
- Pair with HDBaseT 70 meter receiver over single CATx cable
- Bi-directional IR and RS232
- Hot-swappable

mod.outHDMI

HDMI output card



- 4 HDMI outputs
- High resolution up to 1080p, HDTV compatible
- EDID management, HDCP compliant
- Hot-swappable

mod.outVGA

VGA output card



- Compatible with YPbPr, S-video and C-video
- Bandwidth up to 350MHz
- Auto-scaling to 1080p
- Hot-swappable

Technical Specifications

HDBaseT Input Cards

Input/Output	4 RJ45 (Female RJ45); <math><0.3\text{ V} \sim 1.45\text{ Vp-p}</math>; 75 Ω , 4 IR in and out (3.5 mm jack), 4 RS232 (captive screw connector)
Input signal	HDBaseT (RJ45)
Gain	0 dB \sim 10 dB at 100MHz
Bandwidth	6.75 Gbps
Resolution range	Up to 1920 x 1200 or 1080p at 60Hz, supports 3D
Switching speed	200 ns (max.)
Transmission distance	70m (max.)
3D	Yes
HDCP	1.2 compliant, auto and manual HDCP management
SNR	>70 dB at 100MHz-100 M
TDH	<math><0.005\%</math> at 1Hz
Return loss	<math><-30\text{ dB}</math> at 5Hz
Bi-directional control	IR and RS232

HDMI Input Cards

Input	4 HDMI 1.4a (Female HDMI); T.M.D.S. 2.9 V/3.3 V; 75 Ω
Input signal	DVI-D full digital, HDMI
Gain	0 dB
Bandwidth	6.75 Gbps
Resolution range	Up to 1920 x 1200 or 1080P at 60Hz, supports 3D
3D	Yes
HDCP	1.2 compliant, auto and manual HDCP management
Switching speed	200ns (Max.)
Max. time-delay	5ns (\pm 1ns)
Crosstalk	<math><-50\text{ dB}</math> at 5MHz
DVI/HDMI standards	DVI 1.0/HDMI 1.4a, supports EDID and DDC, HDCP compliant

VGA Input Cards

Input	4 VGA, (Female 15 pin HD); 0.5 \sim 2.0 Vp-p; 75 Ω
Input signal	VGA-UXGA, RGBHV, RGBS, RGSB, RsGsBs, component video, S-video & C-video
Input coupling	AC coupling only
Switching type	Vertical interval
Gain	0 dB
Scaling	1920x1080p; XGA, 1024x768; 1280x720p; WXGA, 1280x800
Bandwidth	350MHz (-3 dB), fully load
Switching speed	200ns (Max.)
Crosstalk	<math><-50\text{ dB}</math> at 5MHz

By making home technology simple, Clare provides exclusive benefits to integrators, builders, and homeowners. We offer innovative home automation solutions, Class D amplifiers, media distribution, controllable lighting, and IP CCTV components. For more information, visit clarecontrols.com.