VE7831A

10M True 4K HDMI Active Optical Cable



ATEN VE7831A optical cables utilize AOC technology that enable conversion between input signals and output signals for optimum high bandwidth data transmissions. The EMI-resistant optical cables are available in 10m with full support of True 4K resolutions. They are fully compliant with HDCP 2.2 standards and meet HDMI specifications including 3D, deep color, and data rates up to 18 Gbps. Supporting Dolby True HD and DTS-HD Master Audio, these optical cables guarantee lossless audio signal transmissions. This cable series comes with an HDMI Ethernet Channel (HEC) to combine audio, video, and data streams into a cable, enabling Internet connection sharing and IP-based applications over HDMI. Plus, it supports Audio Return Channel (ARC), allowing audio signal to travel to and from the TV and audio system, thereby reducing the number of cables between the television and external Home Theatre System or soundbar.

Engineered to meet the latest trend of integrator-friendly design, the VE7831A optical cables feature pluggable gender and gold-plated connectors. Therefore, the cables are ideal solutions for extending the reach of digital signages in a wide range of settings, such as traffic stations, shopping centers, and hospital facilities.







- HDMI (3D, Deep Color, 4K, HDR, HEC, ARC); HDCP 2.2 compliant
- Extends True 4K signals 4096 x 2160 @ 60 Hz (4:4:4) up to 10 m
- Supports HDR
- Supports HDMI Ethernet Channel (HEC) combines audio, video, and data streams into a cable to simplify the set-up
- Supports Audio Return Channel (ARC) connects TV and audio system, eliminating the need for an additional cable Reduced EMI and RFI for lower noise interference
- Supports multi audio channel Dolby TrueHD and DTS-HD Master Audio
- Robust cable pulling strength (Max. 10 kg) and compression load resistance (Max. 50 kg) Additional power source is available via Micro USB cable for better compatibility
- Gold-plated connectors for reliable transmissions
- Compliant with International Flame Retardant Standards : UL CMP-OF (Plenum) Pluggable gender for easy installation
- Plug-and-play

Specification

Video Input Interfaces 1 x	able Type: Hybrid cable with optical fiber and copper wire OMI Standards: High Speed HDMI Cable R HDMI 19-pin Type-A Male (gold-plated) pluggable connector R HDMI Type-D Male
Video Input Interfaces 1 x	OMI Standards: High Speed HDMI Cable s HDMI 19-pin Type-A Male (gold-plated) pluggable connector
Interfaces 1 x	
Video Output	
Interfaces 1 x 1 x	r HDMI 19-pin Type-A Male (gold-plated) pluggable connector r HDMI Type-D Male
Video	
Max. Data Rate 18 0	Gbps (6 Gbps per Channel)
Max. Pixel Clock 600	0 MHz (Max.)
HDi Col	DMI (3D, Deep Color, 4K, HDR, HEC, ARC) IOP 2.2 Iolor sub-sampling: 4:4:4 / 4:2:2 / 4:2:0 Ior Depth: 30 / 36 / 48 bit
Max. Resolutions / Distance Up	to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) / 10m
Communication	
Signals TM	MDS / HDCP 2.2 / EDID / CEC
Audio	
Input PCI	M 8-channel, Dolby Digital True HD, DTS-HD Master Audio
Output PCI	CM 8-channel, Dolby Digital True HD, DTS-HD Master Audio
Conductor	
	r Tinned Copper Wire c OM3 Optical Fiber (50/125um)
Jacketed	
Material UL	Plenum (CMP-OF)
Certifications	
Certifications Saf	fety and Emission: CE / FCC / RoHS2 / UL CMP-OF
Power Consumption DC:	25V:0.25W:1BTU
	otional power source: Micro USB to USB cable (100cm) 7, 250mW (max)
Cor Cor	ind Radius: 20mm (Min.) innector Pull Strength: Max. 10kg (100N) impression Load Resistance: Max. 50kg (500N) ielding & Filling: AL Mylar shielding / Kevlar Filling
Environmental	
Operating Temperature 0°C	C to 50°C (32°F to 122°F)
Storage Temperature -20	0°C to 70°C (-4°F to 158°F)
Humidity 0 - 8	85% RH, Non-Condensing
Physical Properties	
Housing Cor	nnector Case: Zinc-Alloy
Weight 0.30	30 kg (0.66 lb)
Cable Outer Dimension Cat	ble Outer Diameter: 4.5mm (± 0.2mm)
Carton Lot 10	pcs

Diagram

