

Universal Fiber Optic Gateway

Control box transmitter and receiver

Celerity Universal Fiber Optic Gateway is a breakthrough for distribution of AV and control signals over fiber optic cable. HDMI 2.0, RS232, IR, USB 2.0 and Ethernet 10/100 are supported up to 1000 feet over a single Celerity Universal Fiber Optic Cable. The combination of these functions in a component with fiber optic connectivity provides superior performance, bandwidth and flexibility for AV professionals to design and install high performance audio, video and control signal distribution systems.

Supporting HDMI 2.0 18 Gbps and up to 4:4:4 color, Celerity UFO Gateway delivers 100% pure signal integrity from point to point at exceptional speed. HDMI for high definition video and multi-channel audio; IR transmission for remote control; USB 2.0 for video camera and hard drive server; Ethernet to support Internet content and/or IP control to a smartTV or other network device, can be transmitted on a single Celerity universal fiber optic cable up to 1000 feet between the Celerity UFO-G-TX and UFO-G-RX transmitter and receiver control boxes.

Celerity UFO Gateway Control Boxes are available in two versions - with (silver) and without (black) USB support.



UFO Gateway with USB (silver)



UFO Gateway (black)

2 Steps to Fiber Optic Control

With Celerity UFO Gateway, only 2 steps are required - pre-wire and connect. No fiber tools are needed, this saves time and cost. Now a fiber optic connection can be made fast and reliable. Using the MPO connector on each end of the Celerity fiber optic cable, a secure snap-lock connection is made to the UFO-G-TX and UFO-G-RX.

The Celerity Universal Fiber Optic Cable is plenum-rated to meet safety certification standards. The Celerity UFO Cable is available in lengths of 35' 40' 50' 60' 80' 100' 130' 160' 200' 500' and 1000'. Celerity UFO Cables are sold separately from the UFO-G-TXCB transmitter and UFO-G-RXCB and receiver. Custom length UFO Cables are available.

Compact Component

In addition to the easily pre-wired fiber optic cable, the Celerity Fiber Optic Universal Gateway has been engineered to assist installers in placing the control box wherever they need system control connections. Measuring a compact 4"x 3"x 1" (101mm x 83mm x 25mm) size, each Celerity Gateway control box includes a mounting bracket to provide mounting points in equipment racks, enclosures or on a wall.

Universal Fiber Optic Gateway

Specifications

Function	UFO-G-TXCB Control box, transmitter	UFO-G-RXCB Control box, receiver
Celerity fiber optic cable distance	up to 1000 ft	up to 1000 ft
HDMI input	HDMI Type-A	
HDMI output		HDMI Type-A
IR input (RX)	3.5mm TRS	3.5mm TRS
IR output (TX)	3.5mm TS	3.5mm TS
IR carrier frequency range	below 100 kHz	below 100 kHz
IR power	5V	5V
USB*	USB 2.0	USB 2.0
Ethernet (RJ45 connector)	10/100	10/100
Power	AC/DC 5V 200mA	AC/DC 5V 200mA
Enclosure	Aluminum	Aluminum
Dimensions (in & mm)	25mm x 83mm x 101mm 1" x 3" x 4"	25mm x 83mm x 101mm 1" x 3" x 4"
Shipping weight (lbs & kg)	0.5 lbs / 0.23 kg	0.5 lbs / 0.23 kg
Data rate	up to 18 Gbps	
Resolution	up to 4K@60Hz UltraHD	
Chroma sampling rate	up to 4:4:4	
Supported features	HDMI High Speed HDR EDID BT.2020	HDCP v2.2 CEC Deep Color
Audio Return Channel	Yes	



*Available with USB in the silver control box, and without USB in the black control box.

Included Items

Universal Fiber Optic Gateway
Control box, transmitter (TX)

1 each:

UFO-G-TXCB
Mounting bracket
AC/DC power adapter (5V/200mA)
User guide

Universal Fiber Optic Gateway
Control box, receiver (RX)

1 each:

UFO-G-RXCB
Mounting bracket
AC/DC power adapter (5V/200mA)
User guide

Universal Fiber Optic Cable

Available lengths

35ft	10.6m	130ft	39.6m
40ft	12.2m	160ft	48.7m
50ft	15.2m	200ft	60.9m
60ft	18.2m	500ft	152.4m
80ft	24.3m	1000ft	304.8m
100ft	30.4m		

Custom lengths

Available in 50' (15.2m) increments from 250' to 950'
(76.2m to 290m)

MPO connector dimension: 7.5mm x 12.7mm x 25.4mm
Fiber optic cable diameter: 3mm x 2mm
Plenum rated, OFNP

