

HDMI HDBaseT™ Transceiver Card Module



- HDBaseT technology, 4K resolution
- HDBaseT™ audio supporting all standard formats
- Up to 80 km link distance
- Auto detection of HDMI resolution
- Standard USB 1.1/2.0
- The Transceiver Card Module can be mounted in Fibersystem Single Slot Unit or Rack system
- The Receiver is a stand-alone unit

HDMI HDBaseT™ Receiver Stand-alone Unit



Receiver Front



Receiver Rear



HDBaseT is a connectivity standard for distribution of uncompressed ultra-high-definition multimedia content.

The HDMI HDBaseT Transceiver - Receiver link enables secure, remote CPU location with extended range and sustained transfer rate using a HDBaseT technology over fiber communications link for ultra-high resolution video and audio, Ethernet, controls and USB peripheral data.

The solution offers a distance of up to 80 kilometers between server and workstation, display or control room with minimal latency.

Video

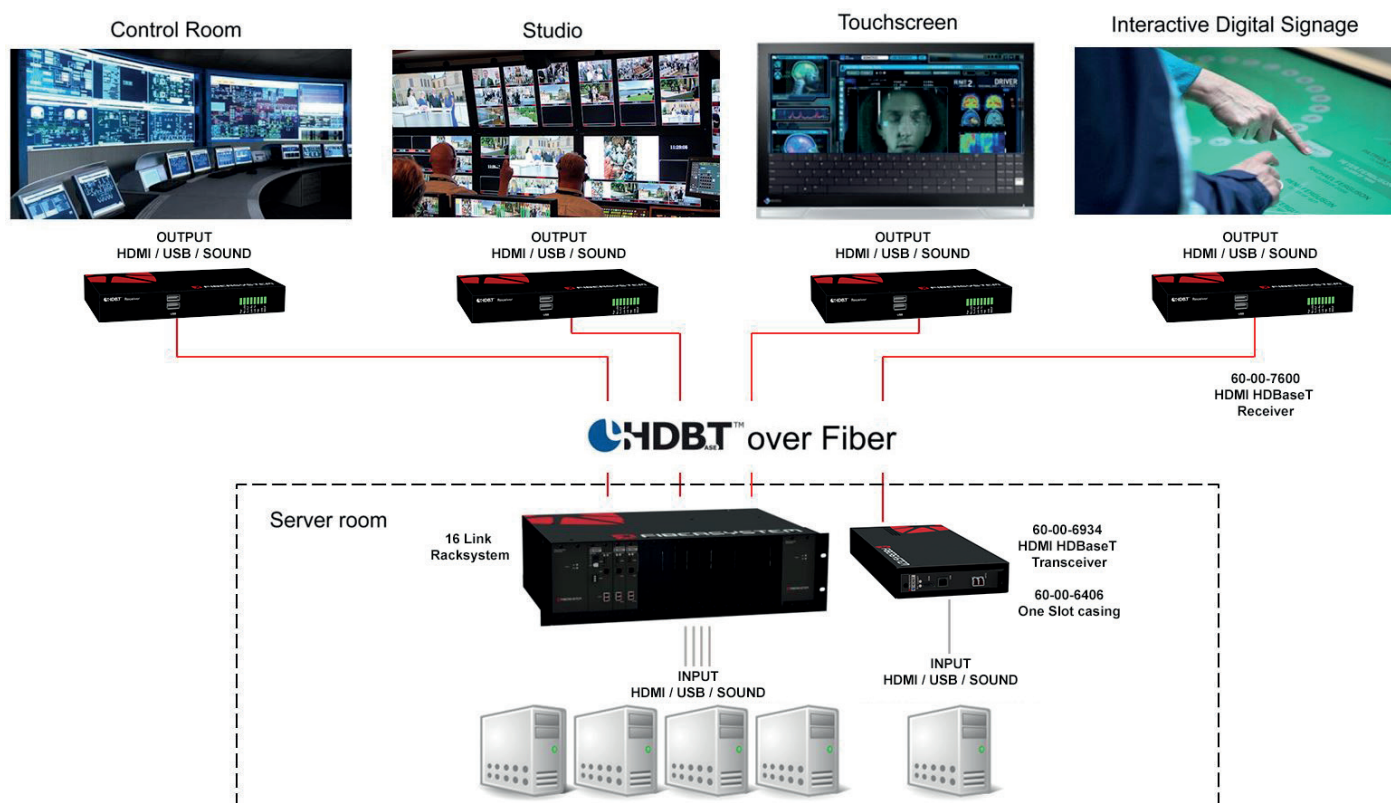
HDBaseT™ delivers Ultra HD (4K 2K @ 30 Hz with YCbCr 4:4:4 and 4K 2K @ 60 Hz with YCbCr 4:2:0) formats of up to 1080p @ 60 Hz @ 48 b/pixel, and 3D - to a network of devices, or over a point-to-point connection. HDBaseT™ support all key features of HDMI 2.0, including HPD, 5V, CEC, EDID and HDCP.

Audio

As with video, HDBaseT™ audio is transparently transported directly from the HDMI chipset, thus supporting all standard formats, such as Dolby Digital, DTS, Dolby TrueHD, DTS HD-Master Audio and more.

USB

HDBaseT supports native USB 2.0, and can be configured either as USB host or device. USB expands the functionality supported by HDBaseT to include KVM switches (keyboard-video-mouse), touch-screen functionality, industrial PCs and USB extensions.



The HDMI HDBaseT transceiver/receiver link enables new possibilities for various application scenarios. The stable communication of ultra-high resolution video and audio, and USB over long distances allows new design solutions.



The Transceiver Card Module mounted in a Single Slot Unit



Receiver Front



Receiver Rear

Connectivity

Product number	Description	HDMI IN	HDMI OUT	USB-Host	USB-Device	SPDIF IN	SPDIF OUT	SFP+ HDBaseT over Fiber
60-00-6934	HDMI HDBaseT Transceiver Card Module	X		X				X
60-00-7600	HDMI HDBaseT Receiver (Stand-alone Unit)		X		X	X	X	X



Industrial Applications

Where the console needs to be close to the process or the computers can't be mounted near the operator due to heat, dust, space constraints or other reasons.



Hospital Environment

Where computers are placed in a separate location in order to maintain a healthy environment for the patients.



Security Center

When the highest security standard and efficient connectivity over fiber optics is required.



Digital Signage

For efficient installations of digital signage to the highest standards.

Fibersystem HDMI HDBaseT™ Receiver

- KVM (Keyboard Video Mouse)
- Sound TOSLINK S/PDIF in/out
- Stand-alone unit



Fibersystem HDMI HDBaseT Transceiver Card Module

- KVM (Keyboard Video Mouse) in
- Intended to be used in the Fibersystem 19 inch rack solution or in single slot unit



Fibersystem One Slot Unit

- For Fibersystem card modules
- Built in power supply
- Mounted with a card module in the picture



Fibersystem 19 inch Rack Solution

- Redundant power supplies

Optional

- QNX RealTime OS version 6.5.0
- HTTP-based (web-browser) interface for configuration/administration
- RTC (real time clock) support
- NTP (Network Time Protocol) support
- SNMPv2 (SNMPv1 compatible) and Web 2.0 (json) interface for access to sensor data
- Logging
- Syslog

See separate datasheet for more information.



- I²C bus enabled for:
 - Fan speed
 - Current
 - Voltage
 - Temperature (three locations on the back plane)
 - Card module slot state (unoccupied/occupied/power fault)

HDBaseT fiber optic link

Wavelength	850 nm/1300 nm/1550 nm. The fiber optic component is of type SFP, where "P" stands for "Pluggable". The type of SFP is selectable to match the distance in the application.
Optical system budget	Depends on type of SFP.
Typical distance	0 to several km depending on type of fiber and video bandwidth. For multimode fiber, MM, 62.5/125 or 50/125 μ m, the distance is limited by the bandwidth of the fiber in use. Typical distance in multimode fiber is 0 - 300 m. For single mode fiber the selected type of SFP sets the distance limits up to 80 km.
Fiber optical connector	LC

HDMI out (ARC)

Video resolution	640 x 480 up to 4096 x 2160 pixels (4K 2K @ 30 Hz with YCbCr 4:4:4 and 4K 2K @ 60 Hz with YCbCr 4:2:0)
Connector	HDMI Type A

USB

USB support	USB 1.1/2.0
Connector	Two (2) type A for device. One (1) type Mini-A for host

TOSLINK

Audio format	Supports all standard formats, such as Dolby Digital, DTS, Dolby TrueHD, DTS HD-Master Audio and more.
Connectors	Two (2) IIS F05 (IIS C5974-1993 F05), IN and OUT

Power Supply

AC	100 VAC to 240 VAC 47-440 Hz
DC connector	12 V
Power consumption	25 W

Environmental

Temperature range	Operating: +10 to +40 °C. Storage: 0 to +70 °C.
Relative humidity	Operating: 5 to 95 %RH. Storage: 5 to 95 %RH non condensing

Dimensions and weight

Physical size	115 (H), 40 (W), 195 (D) mm, 4.5 (H), 1.6 (W), 7.7 (D) inch
Weight	0.25 kg / 0.55 lbs.

Regulatory compliance

Safety	CE
Environmental	Complies with appropriate requirements of RoHs and WEEE

Ordering information

Product number	Model	Description
60-00-7600	45-600	HDMI HDBaseT Receiver Stand-alone Unit
60-00-6934	45-600	HDMI HDBaseT Transceiver Card Module (accessories, see below)

Ordering information Accessories to 60-00-6934 HDMI HDBaseT Transceiver

Product number	Model	Description
60-00-6406	50-502	Single Slot Unit
60-00-6918	50-502	Rack 19" 3 U with 2 x 150 W redundant power supplies, 16 card slots, with SNMP
60-00-6944	50-502	Rack 19" 3 U with 2 x 150 W redundant power supplies, 16 card slots, without SNMP

See separate datasheet on Rack System for more information! Link: <https://www.fibersystem.com/product/rack-19-3hu-3-rack-slots-with-snmp/>