

VN2640 – USB-Interface for MOST150

The Powerful MOST150 Interface with USB 2.0

Technical Data	
MOST Controller	OS81110 Access via Vector MediaLB+® FPGA IP-core with 8192fs (400 Mbps)
Operating modes	Master, Static Master, Slave, Spy*, Bypass, S/PDIF Master
Supported channels	Control messages, asynchronous packets, Ethernet packets and synchronous streams
Spy* for the control and packets channel	Vector Spy150-IP-core in the FPGA, can be activated individually or in parallel to all other modes and channels, amongst others recording of Preemptive-Acknowledge-Information and comprehensive bus statistics (Msgs/s; Packets/s)
Control messages	Full bandwidth of the INIC applicable for Tx and/or Rx via 8192fs MLB+IP-core
Asynchronous data and Ethernet packets	Full bandwidth of the INIC applicable for Tx and/or Rx via 8192fs MLB+IP-core, packet length up to 1524 Byte for MOST packets for Rx and Tx
Master frame rates	44.1 kHz and 48 kHz selectable
PC interface	USB 2.0 highspeed
MOST connector	MOST 2+0, AFBR-1150L / AFBR-2150L transceiver; compliance certified
MOST ECL support	Tx and/or Rx, configurable terminating resistor, 5..30V
Ambient conditions	Operation: -40 °C..+60 °C, storage: -40 °C .. +85 °C Humidity: 15%...90 %, non-condensing
Operating systems	Windows XP: 32 bit (SP3), Windows Vista: 32 bit (SP1), Windows 7: 32 bit / 64 bit
Dimensions (LxWxH)	Approx. 140 x 105 x 32 mm
Power supply	Startup: 7 V..50 V, operating: 5 V..50 V, approx. 7 W, boot time approx. 1 s
Time behavior	Time stamp accuracy: 1 µs, reaction time Rx⇒Tx: typ. <1 ms
Audio input/output	Digital: optical, S/PDIF, 16 bit stereo, 44,1kHz / 48kHz with sample rate converter Analog: 1 x line in, 1 x line out
Stress generators	Light+Lock, control payload and async payload with free configurable payload including configurable consecutive timer
Galvanic isolation	USB / Audio, power supply, SynCLine and ECL are separated from each other

* requires MOST analysis library or CANoe licence

Including with Delivery

- > Power supply 100-240 VAC
- > Power supply cable 1 m (with stripped end)
- > Cable to connect Electrical Control Line (ECL)
- > USB 2.0 cable
- > Fiber optic cable to connect a MOST ring with standard MOST 2+0 connector and two HFBR4531 plugs, 1 m
- > Fiber optic cable for connection to S/PDIF and Toslink devices, 5 m
- > Two couplers for HFBR connectors
- > Drivers for Windows XP/Vista/7
- > XL-Driver-Library (32 bit driver library for C++, C)
- > Documentation

