

Ultralink Module (ULM)

Enables data acquisition from Sondex Ultrawire tools

Applications

- Enables data to be acquired from the entire range of Sondex **Ultrawire™** logging tools

Features and Benefits

- Bit-rate of 50-142 kbit/s
- Rugged performance on a broad variety of wireline cables
- Time-stamping of data, for precise correlation with depth encoder
- Data integrity word-parity and frame-CRC checking
- Data interleaving for large datasets
- Downlink to write parameters to intelligent tools
- Mono-pin connector telemetry
- Automatic toolstring enumeration
- Automatic polling sequence generation

The Sondex **Ultralink Module (ULM004)** can be incorporated into almost any surface panel in order to create a Sondex acquisition system.

The Ultralink Logging Module (ULM004) primary function is to encode downlink communication from the surface to the toolstring and to decode logging data sent from the toolstring to the surface. It is an electronic module for incorporation in a surface power/logging panel. It contains a DSP based Ultralink Modem to provide telemetry up and down the wireline to the Telemetry Controller (XTU) and a USB interface for communication with the host surface computer system.

The ULM004 does not contain any internal power supplies. It requires an external High Voltage PSU to provide the wireline power to the

toolstring and an external Low Voltage PSU to power the module itself. The module has connectors for the PSUs, Wireline and USB.



Specifications

	ULM004
Height	1.52 in. (38.5 mm)
Depth	7.28 in. (185 mm)
Width	10.24 in. (260 mm)
Weight	2.86 lbs (1.3 kg)
Max Temperature	140°F (60°C)
Operating Voltages	+/- 15 Vdc @ 110-120 mA +/- 5 Vdc @ 240 mA (20°C) to 400 mA (20°C)
High Voltage Supply	+/- 25 Vdc to +/- 600 Vdc
Uplink Data Rate	50, 71, 100, 142, 200 kbit/sec
Downlink Data Rate	300 bits/sec