

MO-TTL

UART (TTL) Optical Probe

3.3/5V logic level UART — for embedded systems and modem integration.

OVERVIEW

MO-TTL is for teams that build their own hardware. It runs directly at 3.3 V and 5 V logic and plugs into your modem board's UART with a JST connector — no converter in between. For AMR modem manufacturers, R&D prototypes and embedded data-collection systems it offers maximum reliability with minimum parts. The optical head side is identical to the rest of the family: standard IEC alignment, strong magnetic ring.

HIGHLIGHTS

- UART TTL interface compatible with 3.3 V and 5 V logic
- Direct connection to AMR modem boards and embedded designs
- Minimum component count, maximum reliability
- Standard IEC optical head with magnetic ring
- JST connector for fast assembly
- Reverse-connection protection, 5 V tolerant input
- Test points for fast bring-up

LED INDICATORS

- **PWR** Device powered
- **TX** Sending data to the meter
- **RX** Receiving data from the meter
- **RDY** Link established / paired

COMPATIBILITY

All electricity, gas and water meters with an IEC 62056-21 (IEC 1107) optical port. DLMS/COSEM and mode-E switching are carried transparently. Compatible with the TEDAŞ MASS ecosystem.

SPECIFICATIONS

Arayüz / Interface	UART TTL
Lojik / Logic	3.3 V / 5 V
Baud	300 – 115200
Besleme / Power	3.3 – 5 V
Konnektör / Connector	JST-XH 4p
Optik / Optics	IEC 62056-21 kafa / head, 880 nm IR
Mıknatıs / Magnet	Halka tip / ring, ≥ 15 N
Sıcaklık / Temp.	-25 ... +70 °C
Gövde / Housing	ABS, siyah / black
Standartlar / Standards	IEC 62056-21 · IEC 1107 · DLMS/COSEM · MASS