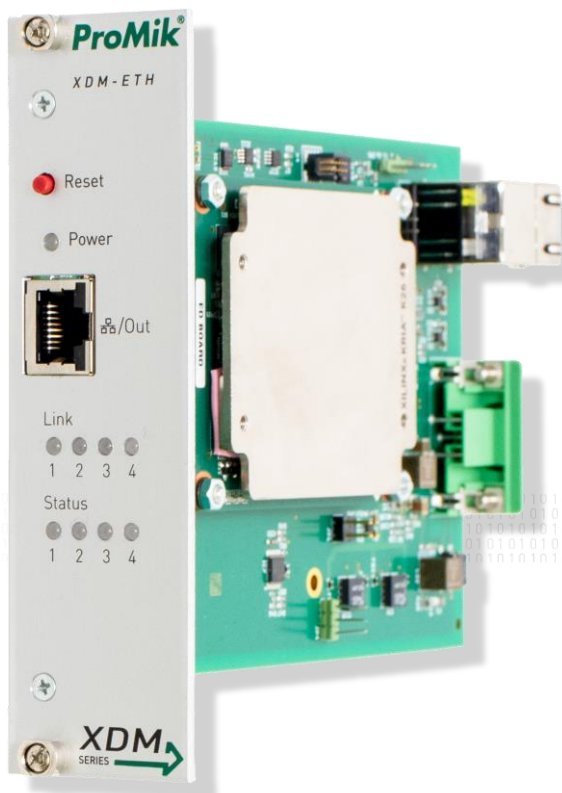


# ProMik

## XDM-ETH

High-Speed Ethernet Download Module



# XDM-ETH

## Overview

High-Speed flash programming unit supporting the latest Automotive Ethernet standards. Applicable for all use cases of on-board programming and testing in electronic series production. The most powerful End-of-Line programming tool in combination with ProMik Bootloader technology in terms of flash programming speed, Cyber Security capabilities and testing functionality. Achieves lowest production costs for demanding applications that include high density MCU, NAND and NOR memories. Typical areas of application are car multimedia, infotainment instrument clusters.

## Key Features

- Integrated operating system for efficient file handling
- Xilinx Zynq UltraScale+ SoC running Linux 5.10 operating system
- 4 independent Ethernet channels
  - Up to 100 Mbyte/sec per channel
- Target interface supporting 100/1000BASE-T1
  - Future standards on request
- Compliant to IEEE 802.3bw and IEEE802.3bp
- Support of Automotive Ethernet ECU test following Open Alliance TC8
- Supporting Restbus simulation
- On-Board SATA3 SSD for high-speed data storage
  - Up to 2TB storage
  - Up to 600MB/s memory read access
- Power supply connector for real-time coupling and synchronization with PSU2048
- Host Ethernet uplink 10/100/1000 MBit/s (auto sensing speed and full/half duplex mode, auto cross over capability)
- Prepared for SMART ICT test functions
- ProMik 19" Rack compatibility

## Software Support

- Combination with ProMik Bootloader technology
- Generic DLL to access full ethernet protocol stack
- pOnline\_Pro flash device drivers
- Custom script execution (python, bash, ...)
- FTP(s) / HTTP(s) server support

Layer 5 - 7	SOME/IP	DoIP	XCP
Layer 4	TCP/UDP		
Layer 3	IPv4/IPv6		
Layer 2	MAC		
Layer 1	100/1000BASE-T1		

## Electrical Data

- Power supply: 15 V DC ( $\pm$  5%)
- Current consumption: typ. 450 mA
- Temperature range: 0-50°C

## Mechanical Dimensions

The following data applies to the XDM-ETH-R with front panel including the CPU module but without enclosure:

- Size: 160 x 100 x 35mm
  - Weight: 210g
- The XDM-ETH is a standard 7BU unit for a 19" ProMik rack.

**XDM**  
SERIES 