

ProMik

XDM-USB

High-Speed Download Module



XDM-USB

Overview

High-speed flash programming unit supporting the fast USB3 standards. Applicable for all use cases of onboard programming and testing in electronic series production. Achieves lowest production costs for demanding applications that include high density MCU, NAND and NOR memories. The purpose is the fast programming of large memories via MCUs with USB3 interface. Typical areas of application are Car Multi-Media and Infotainment Instrument Clusters.

Key Features

- Integrated operating system for efficient file handling
- Xilinx Zynq UltraScale+ SoC running Linux 5.10 operating system
- End-of-Line Programmer with 4 independent USB3 channels
- USB3 channel with up to 300MByte/sec
- Operating modes:
 - Mass storage device
 - Universal host interface
- Power supply connector for real-time coupling and control of PSU2048 and others
- SMART ICT connector to enable external test hardware
- Host Ethernet uplink 10/100/1000 MBit/s (auto sensing speed and full/half duplex mode, auto cross over capability)

Software Support

- FTP(s) / HTTP(s) server support
- Custom script execution (python, bash, ...)
- pOnline_Pro flash drivers
- Combination with ProMik Bootloader technology

Electrical Data

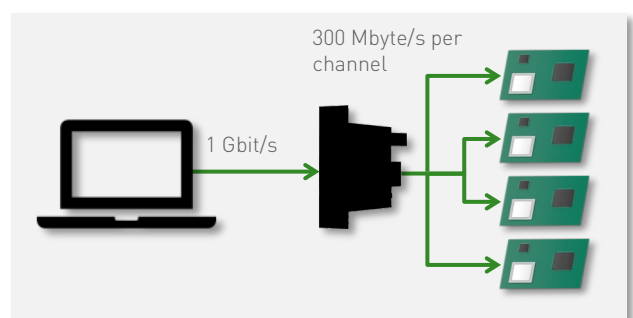
- Power supply: 15 V DC
- Current consumption: typ. 450 mA (no target connected)
- Temperature range: 0 - 50°C

Mechanical Dimensions

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

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

Use Case



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