Edge Remote Management Interface (ERMI) Module

Reliable remote management for mission-critical edge AI.
Simplify edge AI deployment and ensure zero-downtime.

Overview

The Edge Remote Management Interface (ERMI) Out-of-Band (OOB) Management Module is a complete solution for secure, reliable, and scalable remote device management.

In the event of an edge system malfunction and subsequent shutdown, the OOB function can be utilized to power the system back on and verify whether the device has resumed normal operations.

Built on the DMTF Redfish® API standard, it works with a wide range of management platforms and provides dedicated hardware for secure out-of-band connectivity. This enables continuous remote monitoring, control, and recovery, reducing costly on-site interventions.

Model	Out-of-Band (OOB) Management Module
Applicable product	D133-1, D133S, D115W-1, D115S, D135, D315-2, D317
System	Nuvoton NUC980
Device Management	• Supports remote monitoring and management, enables swift disaster recovery, and provides serial console access via ERMI API.
External I/O	• 1 x RJ45 10/100Mb (LED indicator) • 1 x Micro SIM slot for 4G module
Internal I/O	• 1 x 15pin wafer for (PWB、RST、5V、3V3、 Sys Debug UART、I2C、auto- link UART、Power detecting pin、 GPIO) • 1 x 10pin wafer for NCSI (supported by D115W-1 & D115S & D135)* • 1 x reset button • 1 x DIP switch for function setting • 1 x USB type-C for MCU update • 1 x 2pin wafer for SSD recovery (TBD)**
Expansion	• 1 x M.2 Key. B 3042 (only USB2.0) for 4G module
Power Input	5V power
Environment	• Operating temperature -40°C ~ 85°C (TBD, The actual situation depends on the box PC spec.) • Storage temperature -40°C ~ 85°C
Mechanical	55 x 56.2mm
Package	• OOB Module • Cable • Screws

Specification

Microprocessor: Nuvoton NUC980DR63YC
Flash: SPI NOR Flash 256Mbit
Support list @

Edge Remote Management Interface API Development Guide

©2025 by AVerMedia Technologies, Inc. All rights reserved.
No part of this document may be reproduced or transmitted in any form, or by any means (Electronic, mechanical, photocopy, recording, or otherwise) without prior written permission of AVerMedia Technologies. Information in this document is subject to change without notice. **Made in Taiwan.**