Peripheral

A hardware module that provides secure Out-Of-Band device monitoring and management functions over the connected edge system.





KEY FEATURES

- · ARM926EJ-S microprocessor embedded
- · Low power consumption of less than 0.5 W
- Built-in Out-Of-Band (OOB) remote management including remote power on/off, remote hardware monitor, remote BIOS setup, remote BIOS update and optional remote OS recovery

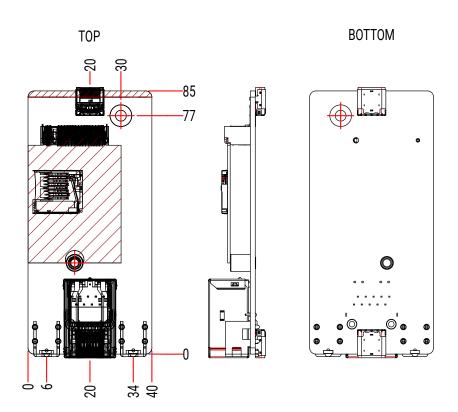




Top View

Bottom View

MECHANICAL DRAWING



SPECIFICATION

Out-Of-Band Monitoring and Management Functions	Processor	Nuvoton NUC980DK71YC (LQFP-128, 128MB DDR2)	
	Power Cycling	Enforcement Shutdown	
		Power Switch On / Off	
		• Reset	
Signal Interface	Connector	Proprietary M.2 Pin Definition by DFI	
	Factory Reset	Factory Reset Button (5 Seconds Pressed)	
	Configuration Lock	2 DP switch (default: both disabled)	
	Storage	128MB SPI NAND Flash	
		Micro SD Slot (Co-layout with optional eMMC)	
	LED Indicator Lights	MCU Activated	
Environment	Operating Temperature	-5 to 65°C (On Industrial Motherboard)	
	Operation Humidity	5 to 90% (Non-condensing)	
	Storage Temperature	-40 to 85°C	
	Certification	CE / FCC / RoHS & REACH Compliant	
Mechanical	Dimensions	89.80 x 45.60mm	

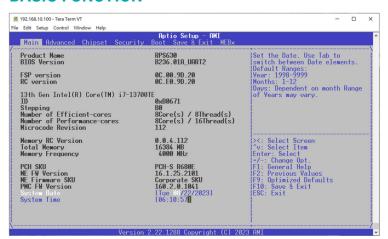
PACKING LIST

• 1 M2A-00B module	774-M2A00B-100G
• 1 EXT-00B carrier board	774-EXTOOB1-100G
• 1 USB cable (Length: 100mm)	A81-001197-018G
• 1 SPI cable (Length: 250mm)	A81-009808-016G
• 1 OOB cable (Front Panel, COM. I2C, 5VSB)	A81-009810-018G
• 1 COM transfer cable (Length: 50mm)	A81-009809-016G
• 1 USB transfer cable (Length: 50mm)	A81-009824-016G
• 1 Bracket	A31-028S33-000G

ORDERING INFORMATION

Model Name	Part Number	Description
EXT-OOB	770-EXTOOB1-000G	EXT-00B Carrier Board w/o M2A-00B
EXT-OOB	770-EXTOOB1-100G	EXT-OOB Carrier Board w/ M2A-OOB

BASIC FUNCTION



Remote power on / off & reset control

Remote hardware monitor log (OpenSSH)

Remote BIOS setup & UEFI shell (Serial over LAN)

Remote BIOS update

Remote BIOS update (SOL & DFI USB-Storage)

Remote Recovery OS Image (UEFI text mode) *OS recovery only support windows