wiwynn®

OCP Network Mezzanine
Wiwynn NM10GR/10GS/1GR Series

Dual-port 10GbE/1GbE
OCP mezzanine cards
with low cost, low power,
enhancing features and
performance.

Flexible I/O Virtualization

Wiwynn OCP Mezzanine supports SR-IOV which allows single physical adapter to be visualized as multiple virtual network interface cards (vNICs). It offers greater flexibility, cost minimization, increased density and minimizing cables by using fewer cables, cards and switch ports.

Port Bandwidth Partitioning

Wiwynn OCP Mezzanine also supports flexible port bandwidth partitioning. The administrator may control the partitioning with Quality of Service (QoS) of the bandwidth across multiple virtual functions.

Power Management Technologies

Wiwynn OCP Mezzanine provides excellent low cost and power solutions using IEEE802.3az Energy Efficient Ethernet (EEE). In addition, Wiwynn NM10GR/1GR features Intel® DMA Coalescing (DMAC). This enables NIC components to remain in lower power states longer, which can dramatically reduce energy consumption.
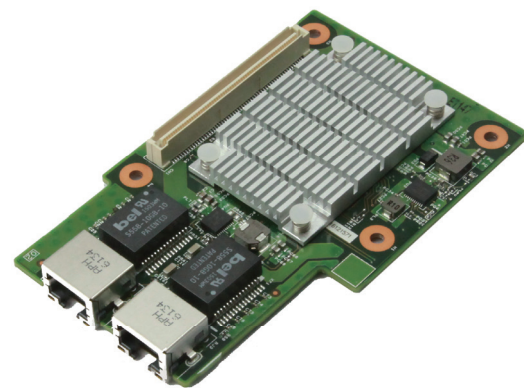
Unified Network Solutions

With unified network solutions like iSCSI, FCoE (NM10GR/10GS) and NFS protocols, Wiwynn OCP Mezzanine provides a simple, dependable, cost-effective way for SAN connectivity.

10 GbE Smooth Transition and Migration

With single-chip 10GBASE-T solution, migration to 10 GbE is dramatically simplified with backward compatibility for your existing GbE network infrastructure. Wiwynn NM10GR provides auto negotiation between 1 GbE and 10 GbE that most customers required.
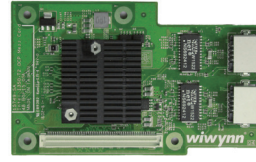
Wiwynn is a fast-growing cloud infrastructure provider that develops high-density computing and storage products, plus rack solutions for leading data centers.
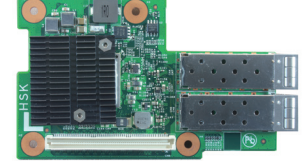
Model : Wiwynn OCP Mezzanine
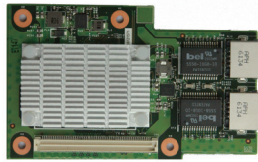
	NM10GR	NM1GR	NM10GS

Specifications

	NM10GR	NM1GR	NM10GS
Controller	Intel® X550-AT2	Intel® I350-AM2	Broadcom BCM57810s
Port Counts	Dual	Dual	Dual
Connection Speed	10GbE	1GbE	10GbE
Connector and Cable medium	RJ45 Copper	RJ45 Copper	SFP+
System Interface Type	PCIe v3.0 (8.0GT/s)	PCIe v2.1 (5.0GT/s)	PCIe v3.0 (8.0GT/s)
WOL Support	Yes	Yes	No
Power Consumption		4.4W	
Form Factor	109.4*78mm	109.4*78mm	109.4*78mm

Features

	NM10GR	NM1GR	NM10GS
I/O Virtualization			
On-chip QoS and Traffic Management	Yes	Yes	Yes
Port Bandwidth Partitioning	Yes	Yes	Yes
Virtual Machine Device Queues (VMDq)	Yes	Yes	No
PCI-SIG SR-IOV Capable	Yes	Yes	Yes
Advanced Technology			
Storage Over Ethernet	iSCSI, FCoE, NFS, SMB	iSCSI, NFS, SMB	iSCSI, FCoE, NFS, SMB
Network Virtualization Acceleration	VXLAN, NVGRE	No	No
Power Management			
IEEE802.3az (EEE)	Yes	Yes	Yes
DMA Coalescing	Yes	Yes	No

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