

## 1G Access Ethernet Switch TN48M-P-DN / TN48M-DN



### Product Overview

TN48M-P/TN48M are high performance and open source community supported Ethernet switches hardware platform, which is a DENT (Disaggregated Enterprise NeTwork) complied Switch. They have forty-eight GbE RJ45 ports and four 10GbE SFP+ ports that support high-density enterprise network access, remote office, distributed enterprise, and retail store applications with 5G/IoT/AI technologies. TN48M-P/TN48M could provide comprehensive support on layer-2 and layer-3 features, including SNMP, Spanning Tree, VLAN, QinQ, Trunk, QoS, RIP, OSPF, IGMP, Access Control, etc

- 176 Gbps full-duplex switching capacity
- 48 x 10/100/1000M RJ-45 + 4 x 10GbE SFP+
- Support Jumbo Frame up to 9KB
- Automatic address learning support packet forwarding table up to 32K MAC addresses
- Hot-swappable PSUs and PoE Budgetary Control (for TN48M-P)
- Fixed Open Frame PSU (for TN48M)
- 2+1 Fixed FANs redundancy
- Power over Ethernet up to IEEE 802.3at, support 30 watts for each port (for TN48M-P-DN only)
- Standard 1RU chassis height, 19" rack mountable



Chipset	
CPU	88F7040 (Quad Core) Marvell Armada ARM8 88F6820 (Dual Core) Marvell Armada ARM8
NPU	2 x Marvell 98DX3265
Memory	8GB DDR4
Storage	32GB mSATA SSD

Interface	
Ethernet Ports	TN48M-P-DN: 48x GbE RJ45 and 4x 10GbE SFP+ , 48 port supporting IEEE 802.3at POE TN48M-DN: 48x GbE RJ45 and 4x 10GbE SFP+
USB Ports	1x USB type-A
Console Port	1x RJ-45
Management OOB port	1x RJ-45

Performance	
Switching capacity	176Gbps
Packet Buffer Memory	3MB
Jumbo Frame support	9216 bytes
MAC Address	32K entries

Power & Fan	
Power Input Voltage & PSU Spec	100 to 240 VAC; TN48M-P-DN: 920 watts (2 x Hot-swappable redundant power) TN48M-DN: 150 watts (1x Fixed PSU)
Fan	3 x Fixed Fan

Environmental Specifications	
Operating temperature	0 to 45°C
Storage temperature:	-25 to 70°C,
Humidity	Operating relative humidity: 10%~90% RH no-condensing Storage humidity: 5%~95% RH no-condensing

Mechanical Specification	
Chassis Dimension (Width x Depth x Height)	438.5 x 550 x 43 mm (For TN48M-P-DN) 438.5 x 300 x 43 mm (For TN48M-DN)

Standards and Certifications	
EMI	FCC 15B/ICES-003 EN300386 (Pending) EN55035 (Pending)
EMS	EN 300386 (Pending) EN 55024:2010 + A1:2015 (Pending) EN 61000-4-2:2009 (Pending) EN 61000-4-3:2006 +A1:2008 +A2:2010 (Pending) EN 61000-4-4:2012 (Pending) EN 61000-4-5:2014 (Pending) EN 61000-4-6:2014 (Pending) EN 61000-4-8:2010 (Pending) EN 61000-4-11:2004 (Pending) IEC 61000-4-3 (Pending)
Safety	IEC 60950-1 (Pending) IEC 62368-1