ONV®

INDUSTRIAL
ETHERNET SWITCH

20+ Years POE Switch Factory



Optical Network Video Technologies （Shenzhen）Co.,Ltd

INDUSTRIAL ETHERNET SWITCH

Product Overview

Industrial switches are high-reliability network communication devices specifically designed for industrial environments. Featuring wide-temperature tolerance, dust resistance, vibration resistance, and strong electromagnetic compatibility (EMC), they ensure stable operation under harsh conditions. With redundant power supplies and sub-millisecond ring network self-healing recovery, they guarantee uninterrupted critical operations. Widely used to connect PLCs, robots, sensors, and other field devices, they support real-time control and data acquisition in smart manufacturing, smart energy, intelligent transportation, and other sectors. Industrial switches are the core infrastructure for building Industrial Internet and enabling automated production.

PoE Ports | SFP Ports | Plug and Play | -40~+80℃



2.5G INDUSTRIAL SWITCHES L3

• Remote Operation and Maintenance, Remote Reboot, and 6kV Lightning Protection

Picture	Model Parameter	Picture	Model Parameter
	L3 ONV-IPS57064FM ONV-IPS57064PFM • 4*10/100/1000/2500Base-T RJ45 Ports（PoE） • 2*1/10GBase-X SFP+ Ports • Forwarding Rate：44.64Mpps • Switching Capacity：256Gbps • NMS and Mobile App Operation & Maintenance		L3 ONV-IPS57128FM ONV-IPS57128PFM • 8*10/100/1000/2500Base-T RJ45 Ports（PoE） • 4*1/10GBase-X SFP+ Ports • Forwarding Rate：89.28Mpps • Switching Capacity：48Gbps • Layer 3 Dynamic Routing NMS
	L3 ONV-IPS57108FM ONV-IPS57108PFM • 8*10/100/1000/2500Base-T RJ45 Ports（PoE） • 2*1/10GBase-X SFP+ Ports • Forwarding Rate：59.52Mpps • Switching Capacity：336Gbps • NMS and Mobile App Operation & Maintenance		L3 ONV-IPS57128PFM-BT • 8*10/100/1000/2500Base-T PoE Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate：89.28Mpps • Switching Capacity：48Gbps • Layer 3 Dynamic Routing NMS

ENHANCED MANAGED INDUSTRIAL SWITCH L2+ L3

• Remote Operation and Maintenance, Remote Reboot, and 6kV Lightning Protection

Picture	Model Parameter	Picture	Model Parameter
	L3 ONV-IPS56128FM ONV-IPS56128PFM • 8*10/100/1000Base-T RJ45 Ports（PoE） • 4*1/10GBase-X SFP+ Ports • Forwarding Rate：71.42Mpps • Switching Capacity：336Gbps • Layer 3 Dynamic Routing NMS		L2+ ONV-IPS36168FM ONV-IPS36168PFM • 8*10/100/1000Base-T RJ45 Ports（PoE） • 4*100/1000Base-T RJ45 Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate：77.38Mpps • Switching Capacity：368Gbps
	L3 ONV-IPS56168FM ONV-IPS56168PFM • 8*10/100/1000Base-T RJ45 Ports（PoE） • 4*1/100/1000Base-X SFP+ Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate：77.38Mpps • Switching Capacity：336Gbps		L3 ONV-IPS56168FM-4TF ONV-IPS56168PFM-4TF • 8*10/100/1000Base-T RJ45 Ports（PoE） • 4*100/1000Base-T RJ45 Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate：77.38Mpps • Switching Capacity：336Gbps
	L2+ ONV-IPS33024M-8F ONV-IPS33024PM-8F • 16*10/100/1000Base-T RJ45 Ports（PoE） • 8*100/1000Base-X SFP Ports • Forwarding Rate：35.71Mpps • Switching Capacity：256Gbps • NMS and Mobile App Operation & Maintenance		L3 ONV-IPS38168FM ONV-IPS38168PFM • 8*10/100/1000Base-T RJ45 Ports（PoE） • 4*100/1000Base-T RJ45 Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate：77.38Mpps • Switching Capacity：598Gbps
	L2+ ONV-IPS36248FM-8G ONV-IPS36248PFM-8G • 8*10/100/1000Base-T RJ45 Ports（PoE） • 12*100/1000Base-T RJ45 Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate：89.28Mpps • Switching Capacity：598Gbps		L2+ ONV-IPS33248FM ONV-IPS33248PFM • 8*10/100/1000Base-T RJ45 Ports（PoE） • 4*100/1000Base-T RJ45 Ports • 12*100/1000Base-X SFP Ports • Forwarding Rate：35.71Mpps • Switching Capacity：256Gbps
	L2+ ONV-IPS36248FM ONV-IPS36248PFM • 12*10/100/1000Base-T RJ45 Ports（PoE） • 8*100/1000Base-X SFP Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate：89.28Mpps • Switching Capacity：598Gbps		L2+ ONV-IPS33024M ONV-IPS33024PM • 16*10/100/1000Base-T RJ45 Ports（PoE） • 8*100/1000Base-T RJ45 Ports • Forwarding Rate：35.71Mpps • Switching Capacity：256Gbps • NMS and Mobile App Operation & Maintenance
	L2+ ONV-IPS33248FM-4GF ONV-IPS33248PFM-4GF • 20*10/100/1000Base-T RJ45 Ports（PoE） • 4*100/1000Base-X SFP+ Ports • Forwarding Rate：35.71Mpps • Switching Capacity：256Gbps • NMS and Mobile App Operation & Maintenance		L2+ ONV-IPS53168FM ONV-IPS53168PFM • 8*10/100/1000Base-T RJ45 Ports（PoE） • 8*100/1000Base-X SFP Ports • Forwarding Rate：23.81Mpps • Switching Capacity：56Gbps • NMS and Mobile App Operation & Maintenance

ECONOMIC INDUSTRIAL SWITCH Web

• 6kV Lightning Protection, IP40 Rating

Picture	Model Parameter	Picture	Model Parameter
	ONV-IPS1021F ONV-IPS1021PF • 1*10/100Base-TX RJ45 Port (PoE) • 1*155Base-X SC Port • Forwarding Rate: 0.3Mpps@64byts • Switching Capacity: 1Gbps (Non-blocking)		ONV-IPS1032F ONV-IPS1032PF • 2*10/100Base-TX RJ45 Ports (PoE) • 1*155Base-X SC Port • Forwarding Rate: 0.45Mpps@64byts • Switching Capacity: 1Gbps (Non-blocking)
	ONV-IPS1004F ONV-IPS1004PF • 4*10/100Base-TX RJ45 Ports (PoE) • 1*155Base-X SC Port • Forwarding Rate: 0.75Mpps@64byts • Switching Capacity: 1.2Gbps (Non-blocking)		ONV-IPS1064 ONV-IPS1064P • 4*10/100Base-TX RJ45 Ports (PoE) • 2*10/100Base-TX RJ45 Ports • Forwarding Rate: 0.89Mpps@64byts • Switching Capacity: 1.6Gbps (Non-blocking)
	ONV-IPS1005 ONV-IPS1005P • 5*10/100Base-TX RJ45 Ports (PoE) • Forwarding Rate: 0.75Mpps@64byts • Switching Capacity: 1.0Gbps (Non-blocking)		ONV-IPS3021F ONV-IPS3021PF • 1*10/1000Base-T RJ45 Port (PoE) • 1*10/1000Base-T RJ45 Port • Forwarding Rate: 2.97Mpps@64byts • Switching Capacity: 10Gbps (Non-blocking)
	ONV-IPS3032F ONV-IPS3032PF • 2*10/100/1000Base-T RJ45 Ports (PoE) • 1*1000Base-X SC Port • Forwarding Rate: 4.46Mpps@64byts • Switching Capacity: 10Gbps (Non-blocking)		ONV-IPS3032PF-SFP • 2*10/100/1000Base-T PoE Ports • 1*1000Base-X SFP Port • Forwarding Rate: 4.46Mpps@64byts • Switching Capacity: 10Gbps (Non-blocking)
	ONV-IPS3005 ONV-IPS3005P • 4*10/100/1000Base-T RJ45 Ports (PoE) • 1*10/100/1000Base-T RJ45 Port • Forwarding Rate: 7.44Mpps@64byts • Switching Capacity: 12Gbps (Non-blocking)		ONV-IPS3064 ONV-IPS3064P • 4*10/100/1000Base-T RJ45 Ports (PoE) • 2*10/1000Base-T RJ45 Ports • Forwarding Rate: 8.93Mpps@64byts • Switching Capacity: 12Gbps (Non-blocking)
	ONV-IPS3064F ONV-IPS3064PF • 4*10/100/1000Base-T RJ45 Ports (PoE) • 2*1000Base-T SFP Ports • Forwarding Rate: 8.93Mpps@64byts • Switching Capacity: 12Gbps (Non-blocking)		ONV-IPS3064FG ONV-IPS3064PFG • 4*10/100/1000Base-T RJ45 Ports (PoE) • 1*100/1000Base-T RJ45 Port • 1*1000Base-X SFP Port • Forwarding Rate: 8.93Mpps@64byts • Switching Capacity: 12Gbps (Non-blocking)
	ONV-IPS3108 ONV-IPS3108P • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*10/100/1000Base-T RJ45 Ports • Forwarding Rate: 14.88Mpps@64byts • Switching Capacity: 20Gbps (Non-blocking)		ONV-IPS3108F ONV-IPS3108PF • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*1000Base-X SFP Ports • Forwarding Rate: 14.88Mpps@64byts • Switching Capacity: 20Gbps (Non-blocking)
	ONV-IPS3128F ONV-IPS3128PF • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*10/100/1000Base-T RJ45 Ports • 2*1000Base-X SFP Ports • Forwarding Rate: 17.86Mpps@64byts • Switching Capacity: 24Gbps (Non-blocking)		Web ONV-IPS5064FM ONV-IPS5064PFM • 4*10/100/1000Base-T RJ45 Ports (PoE) • 2*100/1000Base-X SFP Ports • Forwarding Rate: 8.93Mpps@64byts • Switching Capacity: 12Gbps (Non-blocking)

UNMANAGED INDUSTRIAL SWITCH

• 6kV Lightning Protection, IP40 Rating

Picture	Model Parameter	Picture	Model Parameter
	ONV-IPS33021FS ONV-IPS33021PFS • 1*10/100/1000Base-T RJ45 Port (PoE) • 1*1.25GBase-X SC Port • Forwarding Rate: 2.98Mpps • Switching Capacity: 12Gbps		ONV-IPS33032F ONV-IPS33032PF • 2*10/100/1000Base-T RJ45 Ports (PoE) • 1*1000Base-X SFP Port • Forwarding Rate: 4.46Mpps • Switching Capacity: 12Gbps
	ONV-IPS33032FS ONV-IPS33032PFS • 2*10/100/1000Base-T RJ45 Ports (PoE) • 1*1.25GBase-X SC Port • Forwarding Rate: 4.46Mpps • Switching Capacity: 12Gbps		ONV-IPS33042F ONV-IPS33042PF • 2*10/100/1000Base-T RJ45 Ports (PoE) • 2*1000Base-X SFP Ports • Forwarding Rate: 5.95Mpps • Switching Capacity: 12Gbps
	ONV-IPS33064 ONV-IPS33064P • 4*10/100/1000Base-T RJ45 Ports (PoE) • 2*10/100/1000Base-T RJ45 Ports • Forwarding Rate: 8.93Mpps • Switching Capacity: 12Gbps		ONV-IPS33064FG ONV-IPS33064PFG • 4*10/1000Base-T RJ45 Ports (PoE) • 1*10/1000Base-T RJ45 Port • 1*1000Base-X SFP Port • Forwarding Rate: 8.93Mpps • Switching Capacity: 12Gbps
	ONV-IPS33064F ONV-IPS33064PF • 4*10/100/1000Base-T RJ45 Ports (PoE) • 2*1000Base-X SFP Ports • Forwarding Rate: 8.93Mpps • Switching Capacity: 12Gbps		ONV-IPS33108 ONV-IPS33108P • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*10/100/1000Base-T RJ45 Ports • Forwarding Rate: 14.88Mpps • Switching Capacity: 20Gbps
	ONV-IPS33108F ONV-IPS33108PF • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*1000Base-X SFP Ports • Forwarding Rate: 14Mpps • Switching Capacity: 20Gbps		ONV-IPS33128F ONV-IPS33128PF • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*100/1000Base-T RJ45 Ports • 2*1000Base-X SFP Ports • Forwarding Rate: 17.86Mpps • Switching Capacity: 14Gbps
	ONV-IPS57064F ONV-IPS57064PF • 4*10/100/1000/2500Base-T RJ45 Ports (PoE) • 2*1/2.5/10GBase-X SFP+ Ports • Forwarding Rate: 44.6Mpps • Switching Capacity: 60Gbps		ONV-IPS57008F ONV-IPS57008PF • 8*10/100/1000/2500Base-T RJ45 Ports (PoE) • 1*1/2.5/10GBase-X SFP+ Port • Forwarding Rate: 44.6Mpps • Switching Capacity: 60Gbps

MANAGED INDUSTRIAL SWITCH WITH BYPASS L2+

• Remote Operation and Maintenance, Remote Reboot, and 6kV Lightning Protection

Picture	Model Parameter	Picture	Model Parameter
	L2+ ONV-IPS33006FM-BY ONV-IPS33006PFM-BY • 4*10/100/1000Base-T RJ45 Ports (PoE) • 2*100/1000Base-X SFP Ports • Forwarding Rate: 8.93Mpps • Switching Capacity: 64Gbps • NMS and Mobile App Operation & Maintenance		L2+ ONV-IPS33010FM-BY ONV-IPS33010PFM-BY • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*100/1000Base-X SFP Ports • Forwarding Rate: 14.88Mpps • Switching Capacity: 128Gbps • NMS and Mobile App Operation & Maintenance

FULLY MANAGED INDUSTRIAL SWITCH L2+ L3

• Remote Operation and Maintenance, Remote Reboot, and 6kV Lightning Protection

Picture	Model Parameter	Picture	Model Parameter
	L2+ ONV-IPS33006FM ONV-IPS33006PFM • 4*10/100/1000Base-T RJ45 Ports (PoE) • 2*100/1000Base-X SFP Ports • Forwarding Rate: 8.93Mpps • Switching Capacity: 64Gbps • NMS and Mobile App Operation & Maintenance		L2+ ONV-IPS33010FM ONV-IPS33010PFM • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*100/1000Base-X SFP Ports • Forwarding Rate: 14.88Mpps • Switching Capacity: 128Gbps • NMS and Mobile App Operation & Maintenance
	L2+ ONV-IPS33108FM ONV-IPS33108PFM • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*100/1000Base-X SFP Ports • Forwarding Rate: 14.88Mpps • Switching Capacity: 192Gbps • NMS and Mobile App Operation & Maintenance		L2+ ONV-IPS33012FM • 2*10/100/1000Base-T RJ45 Ports • 12*100/1000Base-X SFP Ports • Forwarding Rate: 20.83Mpps • Switching Capacity: 192Gbps • NMS and Mobile App Operation & Maintenance
	L2+ ONV-IPS33148FM ONV-IPS33148PFM • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*100/1000Base-T RJ45 Ports • 4*100/1000Base-X SFP Ports • Forwarding Rate: 20.83Mpps • Switching Capacity: 256Gbps		L2+ ONV-IPS33016M ONV-IPS33016PM • 16*10/100/1000Base-T RJ45 Ports (PoE) • Forwarding Rate: 23.81Mpps • Switching Capacity: 256Gbps • NMS and Mobile App Operation & Maintenance
	L2+ ONV-IPS33168FM ONV-IPS33168PFM • 8*10/100/1000Base-T RJ45 Ports (PoE) • 8*100/1000Base-X SFP Ports • Forwarding Rate: 59.52Mpps • Switching Capacity: 336Gbps • NMS and Mobile App Operation & Maintenance		L2+ ONV-IPS33168FM-4GF ONV-IPS33168PFM-4GF • 8*10/100/1000Base-T RJ45 Ports (PoE) • 4*100/1000Base-T RJ45 Ports • 4*100/1000Base-X SFP Ports • Forwarding Rate: 23.81Mpps • Switching Capacity: 256Gbps
	L2+ ONV-IPS33026FM ONV-IPS33026PFM • 24*10/100/1000Base-T RJ45 Ports (PoE) • 4*100/1000Base-X SFP Ports (2 SFP Combo Ports) • Forwarding Rate: 38.69Mpps • Switching Capacity: 256Gbps • NMS and Mobile App Operation & Maintenance		L2+ ONV-IPS33020PFM • 16*10/100/1000Base-T PoE Ports • 4*100/1000Base-X SFP Ports • Forwarding Rate: 29.76Mpps • Switching Capacity: 192Gbps • NMS and Mobile App Operation & Maintenance
	L3 ONV-IPS38368FM • 8*10/100/1000Base-T RJ45 Ports • 24*100/1000Base-X SFP Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate: 119.04Mpps • Switching Capacity: 598Gbps		L3 ONV-IPS38448FM • 12*10/100/1000Base-T RJ45 Ports • 28*100/1000Base-X SFP Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate: 119.04Mpps • Switching Capacity: 598Gbps
	L3 ONV-IPS58368FM • 16*10/100/1000Base-X SFP Ports • 8*100/1000Base-X TP/SFP Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate: 95.23Mpps • Switching Capacity: 336Gbps		L3 ONV-IPS38036FM ONV-IPS38036PFM • 24*10/100/1000Base-T RJ45 Ports (PoE) • 8*100/1000Base-X SFP Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate: 20.83Mpps • Switching Capacity: 256Gbps
	L3 ONV-IPS58028FM ONV-IPS58028PFM • 24*10/100/1000Base-T RJ45 Ports (PoE) • 4*1/10GBase-X SFP+ Ports • Forwarding Rate: 95.23Mpps • Switching Capacity: 336Gbps • NMS and Mobile App Operation & Maintenance		L3 ONV-IPS58036FM ONV-IPS58036PFM • 24*10/100/1000Base-T RJ45 Ports (PoE) • 8*100/1000Base-X SFP Ports • 4*1/10GBase-X SFP+ Ports • Forwarding Rate: 95.23Mpps • Switching Capacity: 336Gbps
	L3 ONV-IPS38048FM ONV-IPS38048PFM • 48*10/100/1000Base-T RJ45 Ports (PoE) • 4*1/10GBase-X SFP+ Ports • Forwarding Rate: 130.94Mpps • Switching Capacity: 598Gbps • STP/RSTP and ERPS Ring Protection		L3 ONV-IPS58052FM ONV-IPS58052PFM • 48*10/100/1000Base-T RJ45 Ports (PoE) • 4*1/10GBase-X SFP+ Ports • Forwarding Rate: 95.23Mpps • Switching Capacity: 336Gbps • NMS and Mobile App Operation & Maintenance

SMART MANAGED INDUSTRIAL SWITCH Web

• Remote Operation and Maintenance, Remote Reboot, and 6kV Lightning Protection

Picture	Model Parameter	Picture	Model Parameter
	Web ONV-IPS53064FGM ONV-IPS53064PFGM • 4*10/100/1000Base-T RJ45 Ports (PoE) • 1*100/1000Base-T RJ45 Port • 1*100/1000Base-X SFP Port • Forwarding Rate: 8.93Mpps • Switching Capacity: 12Gbps		Web ONV-IPS53064FM ONV-IPS53064PFM • 4*10/100/1000Base-T RJ45 Ports (PoE) • 2*100/1000Base-X SFP Ports • Forwarding Rate: 8.93Mpps • Switching Capacity: 12Gbps • NMS and Mobile App Operation & Maintenance
	Web ONV-IPS53084FM ONV-IPS53084PFM • 4*10/100/1000Base-T RJ45 Ports (PoE) • 4*100/1000Base-X SFP Ports • Forwarding Rate: 11.9Mpps • Switching Capacity: 56Gbps • NMS and Mobile App Operation & Maintenance		Web ONV-IPS53008M • 8*10/100/1000Base-T RJ45 Ports • Forwarding Rate: 11.9Mpps • Switching Capacity: 16Gbps • NMS and Mobile App Operation & Maintenance
	Web ONV-IPS53108FMA ONV-IPS53108PFMA • 8*10/100/1000Base-T RJ45 Ports (PoE) • 2*100/1000Base-X SFP Ports • Forwarding Rate: 14.88Mpps • Switching Capacity: 20Gbps • NMS and Mobile App Operation & Maintenance		Web ONV-IPS53168FMA ONV-IPS53168PFMA • 8*10/100/1000Base-T RJ45 Ports (PoE) • 8*100/1000Base-X SFP Ports • Forwarding Rate: 23.81Mpps • Switching Capacity: 32Gbps • NMS and Mobile App Operation & Maintenance
	Web ONV-IPS53020FM ONV-IPS53020PFM • 16*10/100/1000Base-T RJ45 Ports (PoE) • 4*1/10GBase-X SFP+ Ports • Forwarding Rate: 29.76Mpps • Switching Capacity: 128Gbps • NMS and Mobile App Operation & Maintenance		Web ONV-IPS53028FM ONV-IPS53028PFM • 24*10/100/1000Base-T RJ45 Ports (PoE) • 4*100/1000Base-X SFP Ports • Forwarding Rate: 35.71Mpps • Switching Capacity: 128Gbps • NMS and Mobile App Operation & Maintenance

INDUSTRIAL BT SWITCH L2+ Max 90W

• 6kV Lightning Protection, IP40 Rating

Picture	Model Parameter	Picture	Model Parameter
	ONV-IPS31004PF-BT • 4*10/100Base-TX BT PoE Ports • 1*155Base-X SC Port • Forwarding Rate: 0.74Mpps • Switching Capacity: 1Gbps		ONV-IPS31064P-BT • 4*10/100Base-TX BT PoE Ports • 2*10/100Base-TX RJ45 Ports • Forwarding Rate: 0.89Mpps • Switching Capacity: 1.6Gbps
	ONV-IPS33064P-BT • 4*10/100/1000Base-T BT PoE Ports • 2*10/100/1000Base-T RJ45 Ports • Forwarding Rate: 8.93Mpps • Switching Capacity: 12Gbps		ONV-IPS33064PF-BT • 4*10/100/1000Base-T BT PoE Ports • 2*1000Base-X SFP Ports • Forwarding Rate: 8.93Mpps • Switching Capacity: 12Gbps
	ONV-IPS33064PFG-BT • 4*10/100/1000Base-T BT PoE Ports • 1*1000Base-T RJ45 Port + 1*1000Base-X SFP Port • Forwarding Rate: 8.93Mpps • Switching Capacity: 12Gbps		ONV-IPS33128PF-BT • 8*10/100/1000Base-T BT PoE Ports • 2*1000Base-T RJ45 Ports + 2*1000Base-X SFP Ports • Forwarding Rate: 17.86Mpps • Switching Capacity: 24Gbps
	L2+ ONV-IPS33064PFM-BT • 4*10/100/1000Base-T BT PoE Ports • 2*100/1000Base-X SFP Ports • Forwarding Rate: 8.93Mpps • Switching Capacity: 128Gbps		L2+ ONV-IPS33108PFM-BT • 8*10/100/1000Base-T BT PoE Ports • 2*1000Base-X SFP Ports • Forwarding Rate: 14.88Mpps • Switching Capacity: 192Gbps

ONV®

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