



## FEATURE HIGHLIGHTS

- 8x 10/100T(x) M12 connector with IEEE 802.3at PoE+
- 2x 10/100/1000T(x) M12 connector
- Support Bypass function
- IP40/IP54(Optional) housing
- EN50155, EN45545-2 railway certificates
- Compliant with ITxPT, E Mark for public transport
- Operating in wide temperature

## DESCRIPTION

Sbjlink's RPT-M1010P-2G, featuring 8 x Fast Ethernet ports and 2 x Gigabit uplink ports, are all designed with M12 connectors for vehicle application. With relay bypass function supporting in 2 Giga uplink ports, this switch can achieve non-stop communication while no power exists.

The power input of RPT-M1010P-2G has redundant dual power inputs supporting 24-48VDC for most of the vehicles and high power input version, between 72V-110VDC. Operating temperature is extended between -40 degree C and 75 degree C. These are applicable on the vehicles and railway application.

To fit the on-board installation, the enclosure is slim and compact with IP40 and IP54 housing options. RPT-M1010P-2G series all have EN50155 and EN45545-2 certificates for railway and E Mark for bus application. ITxPT is also design compliant to increase the interoperability with IT network for public transport.

This switch is an unmanaged switch but capable to modify into a web smart switch that enable IEEE 802.3x and provide flow control function.

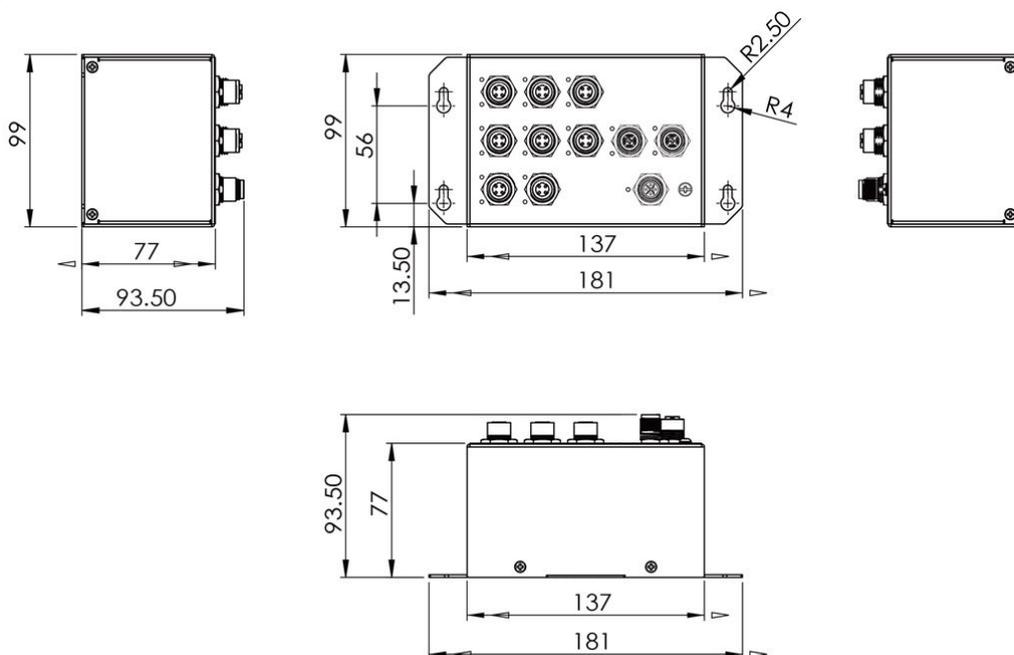
## SPECIFICATIONS

Technology	
Standards	IEEE 802.3 10BaseT
	IEEE 802.3u 100BaseTX
	IEEE 802.3ab 1000BaseT
	IEEE 802.3f Power over Ethernet
	IEEE 802.3t PoE+
Processing Type	Store and Forward
Switch Properties	
Switch Fabric	5.6Gbps
Priority Queues	-
MAC Table Size	8K
Packet Buffer	4Mbits
Interface	
Network Connector	8 x 10/100T(x) M12 Female D-coded 4-pole 2x 10/100/1000T(x) M12 Female X-coded 8-pole auto negotiation speed duplex mode, auto MDI/MDI-X
LED Indicators	Per unit: PWR1, PWR2, Status
	Ports: Link/Active
Power Requirements	
Operation Voltage	LV: 24-48VDC, HV: 72-110VDC, redundant dual inputs
Connection	M12 Male S-coded 4-pole
Power Consumption	15W w/o PDs
Protection	Overload Current Protected, Reverse Polarity Protected
Mechanical Construction	
Enclosure	SECC
Protection Class	IP40/IP54(Optional)
Dimensions	181x99x94 mm (WxHxD)
Weight	1.20 kg
Mounting	Wall Mounting Kits, Optional DIN-Rail Mounting
Environmental Limits	
Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)

## SPECIFICATIONS

Regulatory Approvals	
EMI	FCC Part 15 Subpart B Class A
	CE EN 55032 Class A
EMS	IEC61000-4-2 (ESD)
	IEC61000-4-3 (RS)
	IEC61000-4-4 (EFT)
	IEC61000-4-5 (Surge)
	IEC61000-4-6 (CS)
	IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC61373
Vibration	IEC61373
Green	RoHS Compliant
Certifications	EN 50155
	EN 45545-2
	ITxPT/E-Mark (Pending)
MTBF	>100,000 hours
Warranty	5 Years

## DIMENSIONS (Unit: mm)



Ordering Information	
<p>RPT-M1810P-2G-T-X2 (24VDC) RPT-M1010P-2G-LVDC-T-X2 (48VDC)</p>	<p>10 Port Industrial Unmanaged PoE+ Gigabit M12 Switch</p> <ul style="list-style-type: none"> <li>- 8 x 10/100T(x) + 2 x 10/100/1000T(x) M12 connector</li> <li>- Power Input: 24-48VDC</li> <li>- Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)</li> <li>- Protection Class: IP40</li> </ul>
<p>RPT-M1810P-2G-I54-T-X2 (24VDC) RPT-M1010P-2G-LVDC-I54-T-X2 (48VDC)</p>	<p>10 Port Industrial Unmanaged PoE+ Gigabit M12 Switch</p> <ul style="list-style-type: none"> <li>- 8 x 10/100T(x) + 2 x 10/100/1000T(x) M12 connector</li> <li>- Power Input: 24-48VDC</li> <li>- Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)</li> <li>- Protection Class: IP54</li> </ul>
<p>RPT-M1010P-2G-HVDC-T-X2</p>	<p>10 Port Industrial Unmanaged PoE+ Gigabit M12 Switch</p> <ul style="list-style-type: none"> <li>- 8 x 10/100T(x) + 2 x 10/100/1000T(x) M12 connector</li> <li>- Power Input: 72-110VDC</li> <li>- Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)</li> <li>- Protection Class: IP40</li> </ul>
<p>RPT-M1010P-2G-HVDC-I54-T-X2 (IP54)</p>	<p>10 Port Industrial Unmanaged PoE+ Gigabit M12 Switch</p> <ul style="list-style-type: none"> <li>- 8 x 10/100T(x) + 2 x 10/100/1000T(x) M12 connector</li> <li>- Power Input: 72-110VDC</li> <li>- Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)</li> <li>- Protection Class: IP54</li> </ul>