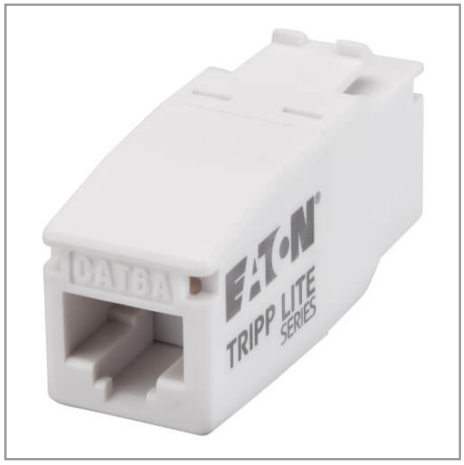
Medical-Grade Ethernet Network Isolator Keystone - RJ45 Feedthrough for Patient Care Vicinities, IEC 60601-1, TAA

MODEL NUMBER: **N234-MI-KJ**



Isolates medical devices connected to an Ethernet network to protect patients from dangerous leakage currents.

Features

Isolates Medical Equipment on an Ethernet Network to Enhance Patient Safety
The N234-MI-KJ connects medical equipment to a non-medical appliance or system, such as a single computer or a local Ethernet network. It protects staff and patients from dangerous leakage currents that can travel through standard copper Ethernet cable without affecting the flow or speed of 10G data.

Ideal for Use in a Wide Range of Medical Applications
This medical-grade isolator keystone is recommended for interfacing between medical and non-medical equipment where no essential performance is required. The suitability of use and isolation shall be determined in the end use application and evaluation. It is also ideal for connecting a clinic or practice's network to the PC of a prolonged EEG system or connecting an analysis computer to a doctor's consulting room with an EMG measuring station.

Compatible with Standard Ethernet-Enabled Medical Equipment and Cabling
This medical-grade keystone isolator is compatible with hospital networks, diagnostic imaging systems, patient monitoring devices and clinical labs where Ethernet isolation ensures patient and equipment safety. It can also be used with network switches, servers and other IT infrastructure in healthcare facilities that require galvanic isolation between medical and non-medical networks. Its RJ45 ports connect to any standard Cat6 Ethernet cable.

Complies with IEC 60601-1 Standards for Use in Patient Care Vicinities
The N234-MI-KJ complies with IEC 60601-1 and EMC/IEC 60601-1-2 safety standards for a network connection between a medical device and an Ethernet network or non-medical device (PC or laptop). Because it meets IEC 60601-1 standards, this medical network isolator can be used in patient care vicinities. For example, you can use this 60601-1 network isolator in the connection between a clinic's network and the PC of a prolonged EEG system. ***Note**: You can only connect network components that comply with IEEE 802.3 or IEEE 802.3ab. You cannot connect telecommunication appliances, voltage supplies or similar devices.*

Easy to Install on an Ethernet Network
This Ethernet network isolator has two RJ45 ports and acts as a coupler, joining two tested and approved Cat6 cables to complete the connection between compatible medical equipment and a computer or data network in a patient care vicinity. Completely plug and play, this RJ45 isolator does not require any

Highlights

- Isolates harmful leakage currents on a data network to protect patients and equipment
- Meets vigorous IEC 60601-1 2MOPP standards for use in patient care vicinities
- Compliant with a wide range of medical equipment and Cat6 cables
- Plug-and-play operation requires no additional software or external power supply
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

System Requirements

- Network components that comply with IEEE 802.3 or IEEE 802.3ab (10/100/1000BASE-T, twisted-pair)
- Cat6 network cabling

Package Includes

- N234-MI-KJ Medical-Grade Ethernet Network Isolator for Patient Care Vicinities
- Quick Start Guide

software or an external power supply.

Performance Requirements of Permanent Cables
This keystone isolator connects to permanently installed Ethernet cables and provides electrical isolation at the exit terminal. For Ethernet cable installation, including its network terminating isolator, to fully meet ISO 11801 Class EA or TIA/EIA 568 Cat6a access requirements, the cable itself must have certain conditions of performance.

TAA-Compliant for GSA Schedule Purchases
The N234-MI-KJ is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

Specifications

OVERVIEW	
UPC Code	037332287144
Accessory Type	Network Isolator
Technology	Cat6
Accessory Class	Networking Accessories
CONNECTIONS	
Side A - Connector 1	RJ45 (FEMALE)
Side B - Connector 1	RJ45 (FEMALE)
ISOLATION	
Leakage Current	TYPICAL: 12.0UA, MAX: 16.0UA
PHYSICAL	
Color	White
Shipping Dimensions (hwd / in.)	1.30 x 6.14 x 4.80
Shipping Dimensions (hwd / cm)	3.30 x 15.60 x 12.19
Shipping Weight (lbs.)	0.14
Shipping Weight (kg)	0.06
Unit Dimensions (hwd / in.)	0.760 x 0.900 x 1.870
Unit Weight (lbs.)	0.11
Unit Weight (kg)	0.05
ENVIRONMENTAL	
Operating Temperature Range	14° to 140°F (-10° to 60°C)
Storage Temperature Range	-40° to 140° F (-40° to 60°C)
Storage Elevation (m)	3000
Operating Humidity Range	10% to 90% RH, Non-condensing

Storage Humidity Range	10% to 95% RH, Non-condensing
ESD Protection	16kV
COMMUNICATIONS	
Network Compatibility	10 Gbps
IEEE Standards Supported	802.3; 802.3ab
FEATURES & SPECIFICATIONS	
Ingress Protection (IP) Rating	IPX0; IP40
STANDARDS & COMPLIANCE	
Product Certifications	2MOPP; IEC 60601-1
Product Compliance	CE (Europe); REACH; RoHS; Trade Agreements Act (TAA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	1-year limited warranty

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