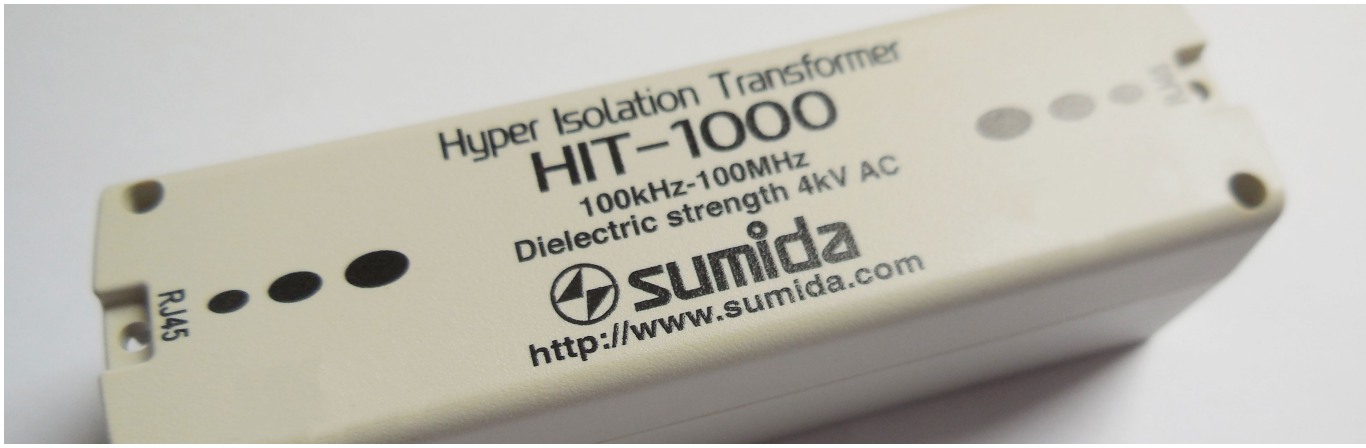
NETWORK ISOLATION TRANSFORMER HIT-1000



Application

The network-separation device **HIT-1000** (Hyper Isolation Transformer) is a high-performance isolation transformer in order to prevent operators and patients, which are connected to electronic medical equipment, from possible electric shocks.

The main applications are **Communication – and Data networks** in medical facilities like: Hospitals, Operation-rooms, Intensive-care-units, Ambulances etc. HIT-1000 is used in connection with PC's, Hub's, Routers and other Telecommunication equipment devices.

Features

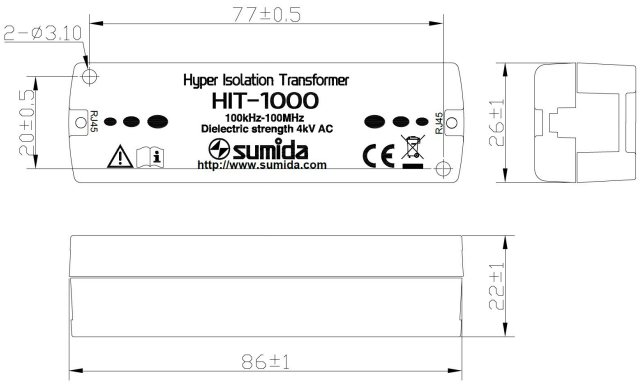
- RoHS compliance
- Operating temperature - Humidity
  10 ~ 40°C 30 ~ 85% (No dew condensation)
- Storage temperature - Humidity
  -20 ~ 65°C 10 ~ 95% (No dew condensation)
- IEEE802.3
  10BASE-T / 100BASE-TX / 1000BASE-T
- US Patent No. 6974905
- IEC60601-1 Ed.3.1 Recognized

Function

This transformer (designed according **IEC60601-1-1** for medical electrical equipment) interrupts the electric-current-flow in case of a malfunction due to the separation of the electrical-potential between medical devices.

In addition, **HIT-1000** reduces the common-modenoise generated in LAN networks which prevents malfunctions or failures in medical devices in general.

Dimensions (Unit : mm)



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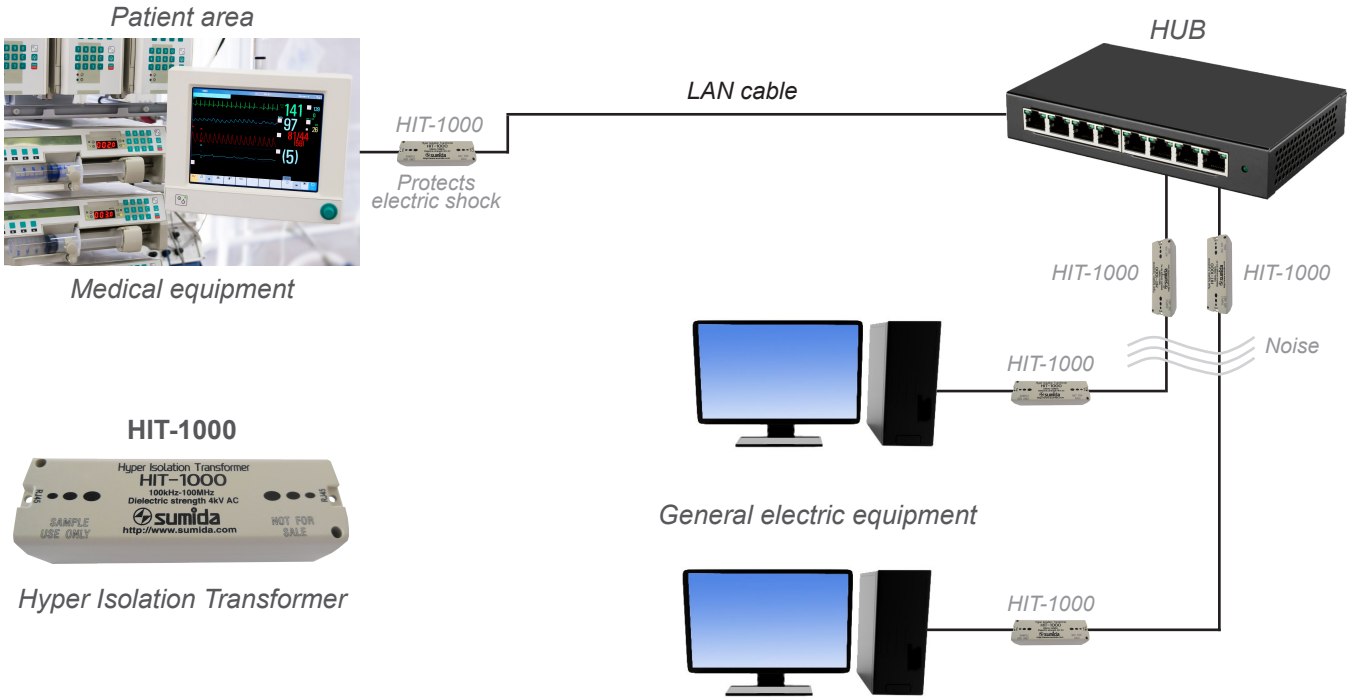
Electric characteristic

Impedance	100Ω : 100Ω (RJ-45)
Input Voltage	2V rms MAX
Frequency Response	100kHz - 100MHz (Max 1.5dB)
Return Loss	1MHz - 40MHz (Min. 20dB) 40MHz - 80MHz (Min. 14dB) 80MHz - 100MHz (Min. 12dB)
Dielectric Strength	In-Out AC 4kV (1Minut)
In-Out Capacitance	Max. 40pF
Creepage Distance	Min. 8mm
Clearance	Min. 5mm

Example

Protects against electric shocks & reduces common mode noise



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.