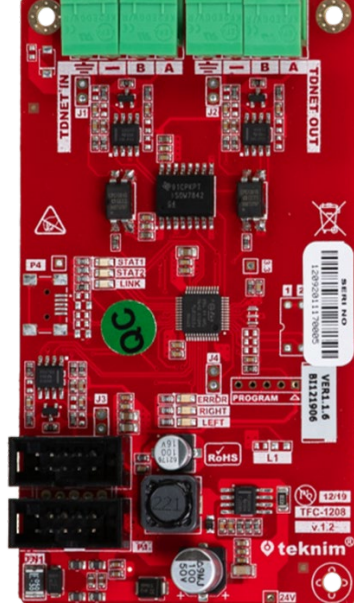


## TFC-1209 Network Module

TFC-1209 Network Module establishes a strong ring or bus network by inter-connecting 16 panels via TdNET protocol. It also supports built-in isolator which helps to protect the network line in case if there will be a short cut at the cable between control panels.

In case system load needs to be distributed or in facilities with multiple buildings, it can inter-connect all panels to build a ring or bus network and enable operation and control of the entire system as a single panel. It is used increasing loop quantities to 2 loops of TFP-1211 Control Panel.



### General Features

- Supports Class A and Class B connections
- Supports Built-in Isolator
- Ensures a reliable and logic data transmission via Ring and Bus topologies.
- Uses RS485 serial communication and data transmission speed is 230.400bps
- Same level of accessibility and command sending to all panels via peer-to-peer communication network
- Uses TdNET protocol developed by Teknim
- In case of network board failure, it by-passes board input and output connections and ensures network line continuity
- Network connection up to 16 panels
- Enables monitoring of all networked panels from any panel in the system
- Provides visual notification via error LEDs indicating open circuit direction or link LED indicating connection status.
- It can be easily plugged to main board by connector and frame connection and operated

### TdNET® NETWORK COMMUNICATION PROTOCOL

TdNET is a strong and reliable communication protocol developed to build a network among all products of Teknim. TdNET protocol defines Network and Data Link layers according to OSI (Open Systems Interconnection) defined by International Standard Organization.

TdNET Protocol takes advantage of RS-485's differential feature and performs CRC control in order to prevent faulty data transmission. Thus, data transmission is both reliable and capable of eliminating disturbances and high frequency effects that may interrupt communication