



T4000 PRO SECURITY COMMUNICATOR

ir inner range

T4000 PRO SECURITY COMMUNICATOR



Designed with high data transfer rates in mind, the T4000 Pro offers a monitored, managed, on-site portable Internet solution over 4G LTE.

Alternatively, the T4000 Pro can operate in Standalone Mode offering 4G router and App control capabilities.



T4000 PRO – THE BENEFITS

Quick Setup



Simple Plug and Play installation.

Built-in Web user interface.

Scan the QR Code or use a Web Browser to access the T4000 Pro programming interface.

Over-the-air Firmware updatable.

Alarm Reporting



Compatible with most alarm systems via Serial Data link or Dialler Capture port.

Contact-ID, IRTFast and IRTFast+Text reporting formats.

LAN Failover



Data can be configured to pass over a Clients Network via the WAN connection or Wi-Fi.

The T4000 Pro acts as a 4G LTE backup service for connections such as the Alarm Panel and a CCTV system should the Client Network fail.

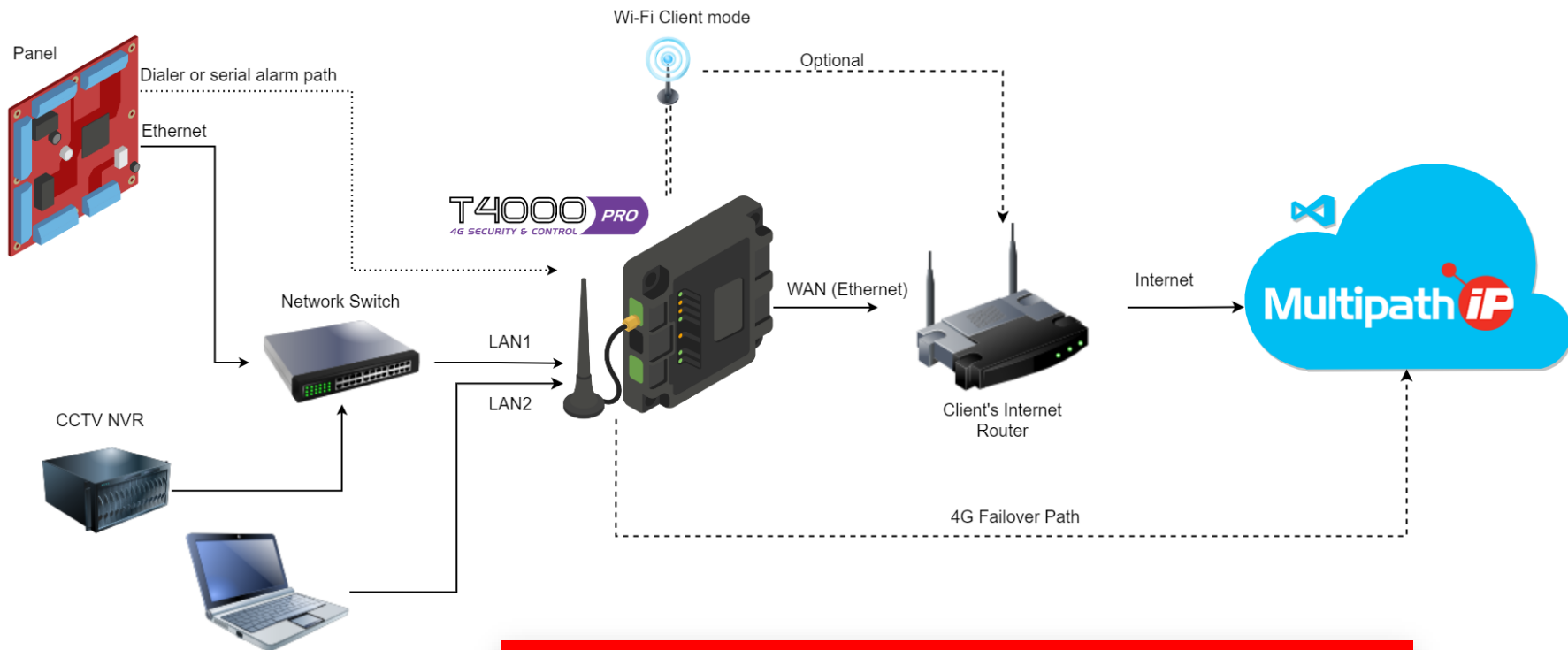




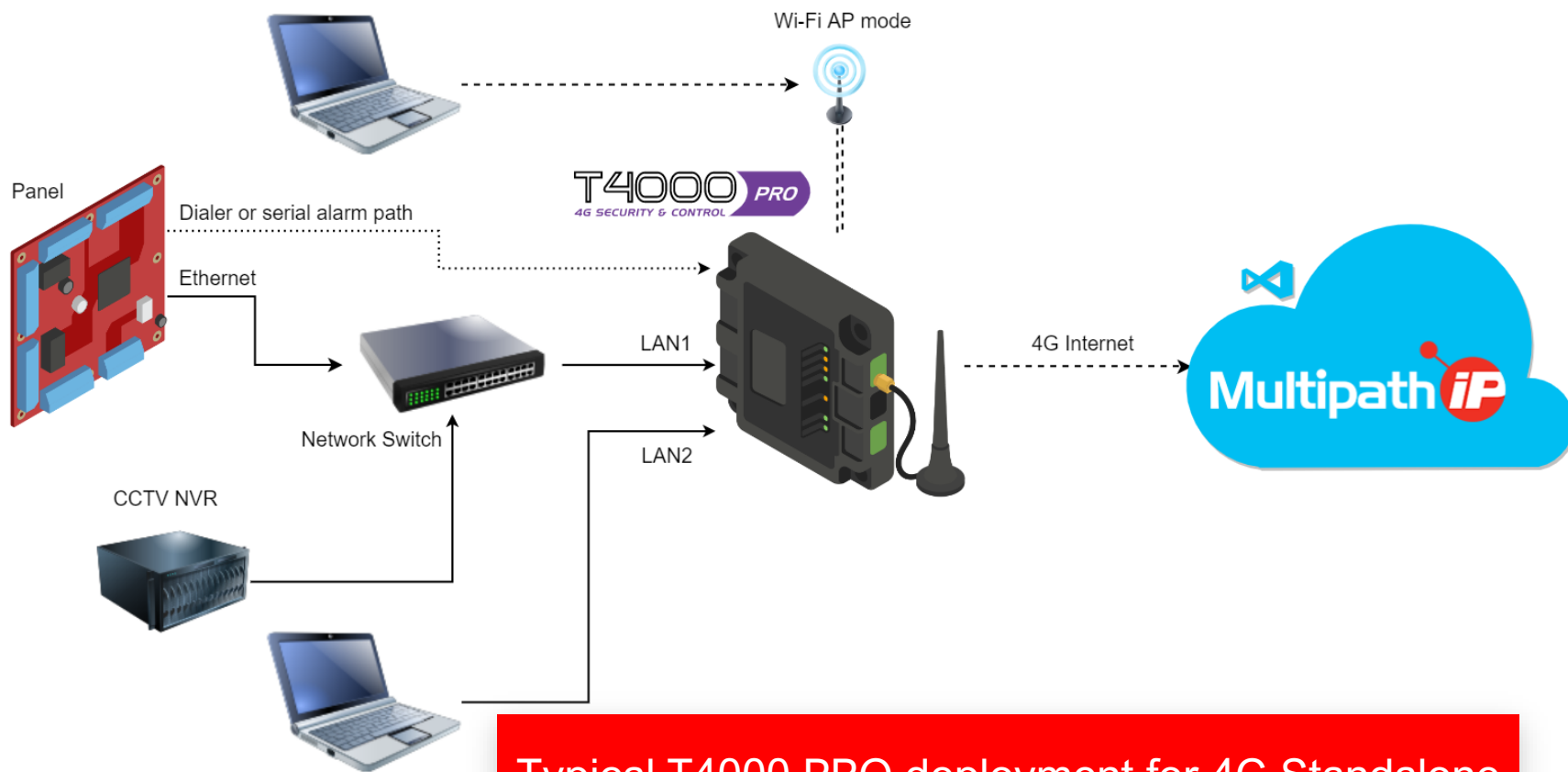
T4000 PRO

DEPLOYMENT EXAMPLES





Typical T4000 PRO deployment for 4G failover



Typical T4000 PRO deployment for 4G Standalone



T4000 PRO

PROGRAMMING INTERFACE



T4000 PRO - DASHBOARD

Setting up 4G failover connectivity for your mission critical devices is made easy with the T4000 Pro.

Like the Inner Range Inception Panel, the T4000 has a Web Server on board for remote programming over SkyTunnel.

It shares the same look and feel with the Inception for ease of programming and overall familiarity.

The screenshot displays the T4000 PRO web dashboard. At the top, a dark header bar contains the 'T4000 PRO' logo and a 'Warning!' icon with the text 'Installer password is default! Click to change here'. Below the header, a 'Menu' sidebar on the left lists various system functions: Dashboard, Monitoring Configuration, WAN, LAN interfaces, Wi-Fi, System Time, Inputs Outputs, Backup and Restore, Firmware Update, Users, System, and Logout. The main content area, titled 'Dashboard', is divided into three sections: 'System Health', 'System Information', and 'Monitoring Info'. The 'System Health' section shows various status indicators with green checkmarks, including 'Panel Connected', 'Cloud host', 'Alarm Buffer', 'Ethernet Status', 'Wi-Fi Configuration', 'Wi-Fi Status', and 'System Uptime'. The 'System Information' section lists details such as 'Serial', 'App version', 'Router Version', 'SIM 1', and 'SIM 2'. The 'Monitoring Info' section displays 'Client Code', 'Panel Connection', 'Reporting Format', and 'Connected Panel Serial'. At the bottom of the dashboard, a footer bar shows the 'System Name' as 'MIP Eugene T4000 Pro' and the 'OS version' as '0.5.6.2531-r0'.

T4000 PRO
THE SECURITY & CONTROL

Warning!
Installer password is default!
[Click to change here](#)

Menu

- Dashboard
- Monitoring Configuration
- WAN
- LAN interfaces
- Wi-Fi
- System Time
- Inputs Outputs
- Backup and Restore
- Firmware Update
- Users
- System
- Logout

Dashboard

System Health

- Panel Connected: ✔ Connected
- Cloud host: ✔ Connected (19h 47m 4s)
- Alarm Buffer: ✔ Healthy
- Ethernet Status: ✔ 1 of 3 connected
- Wi-Fi Configuration: ✔ Hotspot
- Wi-Fi Status: ✔ 0 clients connected
- System Uptime: 🕒 19:48

System Information

- Serial: TV000000
- App version: 0.5.6.2531
- Router Version: 0.5.6.2529
- SIM 1: Spark (Active)
- SIM 2: Idle

Monitoring Info

- Client Code: 1449
- Panel Connection: Dialler Capture
- Reporting Format: IRFast (with text)
- Connected Panel Serial: Unknown

System Name: MIP Eugene T4000 Pro
OS version: 0.5.6.2531-r0



T4000 PRO - WAN INTERFACE

The WAN port allows the T4000 Pro and connected devices on its LAN1, LAN2 and Wireless Hotspot to use an existing hardwired internet connection.

The T4000 Pro will prioritise all traffic from LAN1, LAN2 and Wireless Hotspot through the WAN port and will 'fail over' all traffic to the 4G connection in the event of connection loss on the WAN port.

The WAN port's IP addressing can be configured to use DHCP assigned or Static IP addressing.

WAN

Method

☒ DHCP

☐ Static

DHCP Address

0.0.0.0

DHCP Netmask

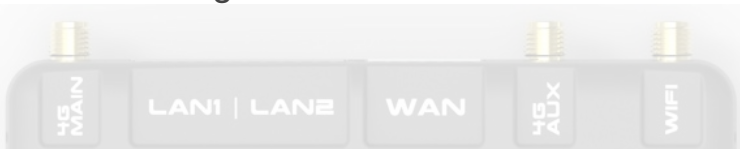
0.0.0.0

DHCP Gateway

0.0.0.0

DHCP DNS

Speed/Duplex

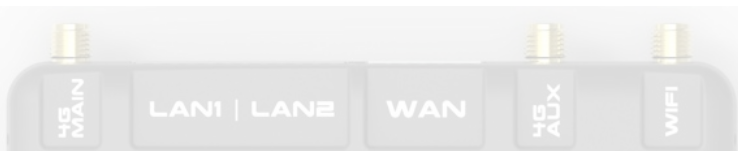


T4000 PRO - LAN INTERFACES

You can configure the T4000 Pro's hardware interfaces including LAN1 and LAN2 Ethernet ports, Wireless Hotspot, enable DHCP servers and configure internal network bridging.

Network bridging is used to allow IP connectivity between the T4000 Pro's various interfaces including LAN1, LAN2 and Wi-Fi.

Tool Tips are accessible by clicking the  icon for additional information.



Bridge

- ☒ Enable Network Bridging
- ☒ Add LAN1 to Network Bridge
- ☒ Add LAN2 to Network Bridge
- ☒ Add Wi-Fi Hotspot to Network Bridge

Bridge Address
192.168.86.1

Bridge Netmask
255.255.255.0

- ☒ Enable DHCP

DHCP Range Start
192.168.86.100

DHCP Range End
192.168.86.149

Set a suitable IPv4 address for the bridge interface.

Addresses in the 'private addresses' ranges are common. Eg 192.168.1.1, 172.16.1.1, or 10.1.1.1.

The bridge address must be in a different subnet than the WAN and any non-bridged LAN interfaces.







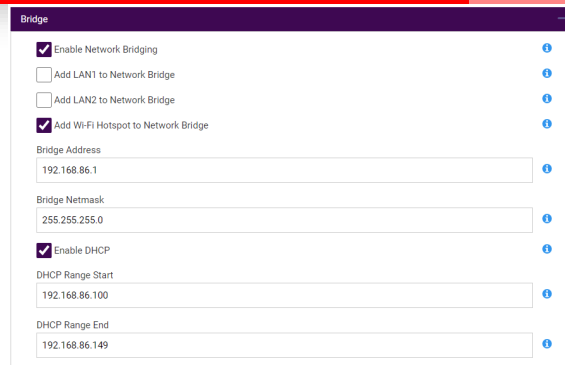

T4000 PRO - LAN INTERFACES

When network bridging is disabled, devices can still connect to the internet via WAN, Wi-Fi (Client mode) or 4G but cannot communicate with any devices on the other T4000 Pro LAN interfaces.

All interfaces can be added/removed from the Network Bridge as needed.

Any Interfaces added to the Network Bridge will share the Network Bridge's DHCP server.

LAN1/LAN2 Ethernet ports and the Wi-Fi interface can be individually configured for Static IP addressing or a DHCP server can be enabled.



Bridge

- ☒ Enable Network Bridging
- ☐ Add LAN1 to Network Bridge
- ☐ Add LAN2 to Network Bridge
- ☒ Add Wi-Fi Hotspot to Network Bridge

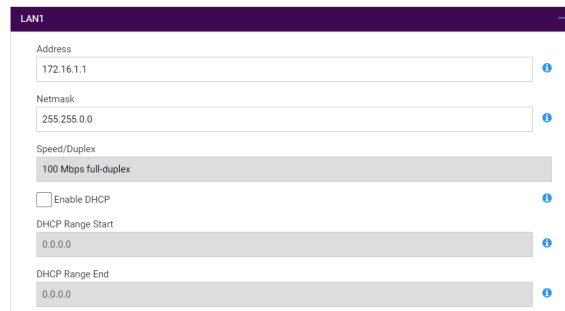
Bridge Address
192.168.86.1

Bridge Netmask
255.255.255.0

☒ Enable DHCP

DHCP Range Start
192.168.86.100

DHCP Range End
192.168.86.149



LAN1

Address
172.16.1.1

Netmask
255.255.0.0

Speed/Duplex
100 Mbps full-duplex

☐ Enable DHCP

DHCP Range Start
0.0.0.0

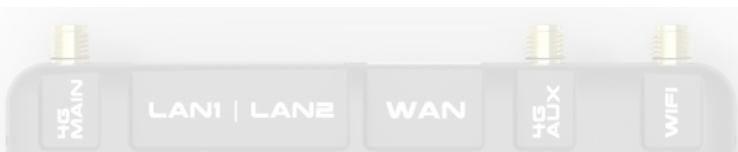
DHCP Range End
0.0.0.0



LAN2

Address
10.1.1.1

Netmask
255.0.0.0



T4000 PRO - WI-FI CONFIGURATION

T4000 Pro can connect to a 2.4Ghz 802.11n wireless network using personal or enterprise authentication methods.

This performs in a similar way to the WAN Ethernet port providing devices connected to 'LAN1' and 'LAN2' ports with an Internet connection via an existing local Wi-Fi network.

Wireless Hotspot turns the T4000 Pro into a Wi-Fi Access Point.

All devices connected to the Wi-Fi AP will be routed through the WAN by default. However, it will attempt to 'fail over' to 4G, if it is disrupted or offline.

Wi-Fi



Enable Wi-Fi



Connection Mode

Wireless Hotspot



Wireless Hotspot

Connect to WPA2 Personal Network

Connect to WPA2 Enterprise Network



Hotspot Password



Wi-Fi MAC Address



VPN CLIENT & FIREWALL

VPN

Save

This page is used to configure the T4000 Pro's 'VPN' settings. [Read More...](#)

VPN Configuration

☒ Enable VPN

VPN Type

OpenVPN

OpenVPN

WireGuard

Not Running

Profile Name

Configuration

Select

VPN Server

VPN IP Address

Username

Password

Server Override (Optional)

☐ Use VPN for the default route



VPN CLIENT & FIREWALL

VPN

- The purpose of the VPN connection is to allow the T4000 Pro and any devices connected to the T4000 Pro's LAN1, LAN2 and Wireless Hotspot to communicate via a VPN.
- A VPN provides connectivity as well as privacy from the public internet.
- The T4000 Pro will attempt to maintain the VPN connection through the WAN interface and will attempt to 'fail over' all traffic to the 4G (LTE) connection if the WAN is disrupted or offline.
- The VPN configuration is uploaded to the T4000 Pro via a configuration file. When the VPN is enabled and the settings are appropriate, the T4000 Pro will be attempting to maintain the VPN connection.



VPN & FIREWALL - PORT FORWARDING

Firewall

+
Add

Save

Delete

This page is used to configure the T4000 Pro's 'Firewall Rule' settings. [Read More...](#)

Enabled	Name	Protocol	Source IP	External Port	Destination Port	Destination IP
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The internal firewall of the T4000 Pro is configured to block all inbound connections.

The rules configured via this page define the allowed inbound connections from external sources to the devices connected via the private interfaces of the T4000 Pro.

The Firewall port forward rule configurations define which packets received on the WAN, LTE, Wi-Fi and VPN Tunnel interfaces of the T4000 Pro are allowed through its internal firewall and then forwarded to devices connected via the LAN1, LAN2 or Wi-Fi Hotspot.

Example Rule

☒ Enable Firewall Rule

Name

Example Rule

Protocol

TCP

Source IP Address (Optional)

ANY

External Port

1234

Destination Port

1234

Destination IP Address

192.168.86.121





T4000 PRO

UPCOMING FUNCTIONALITY



DEVICE CONFIGURATION

Devices

+
Add

Save

Delete

This page is used to observe the devices that are connected to the T4000 Pro. [Read More...](#)

Reserved	Name	IP Address	MAC Address	Device Type	Interface	DHCP Lease	Present
☒	Inception Demo Case	192.168.86.114	00:11:B9:09:08:61	AlarmPanel	Bridge	☒	☒
☒	Paradox IP150	192.168.86.136	00:19:BA:10:AD:50	AlarmPanel	Bridge	☒	☒

Device Configuration

☒ Reserve DHCP IP Address [i](#)

Name

Inception Demo Case [i](#)

IP Address

192.168.86.114 [i](#)

MAC Address

00:11:B9:09:08:61 [i](#)

Device Type

AlarmPanel [i](#)

Interface

Bridge [i](#)

☒ DHCP Lease [i](#)

☒ Present [i](#)



DEVICE CONFIGURATION - IP ADDRESS RESERVATION

- This page allows for the devices that are connected to these private interfaces to be observed, regardless of whether the device has been issued a DHCP IP address from the T4000 Pro or if the device has been configured with a static IP address.
- The default functionality of the T4000 Pro is for the private interfaces (LAN1, LAN2 & Wi-Fi Hotspot) to be bridged together and the bridge will have a DHCP server enabled.
- Additionally, through the configuration available from this page a DHCP IP address can be reserved for a device with a given MAC address.

Devices



TH

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Reserved

Name

IP Address

MAC Address

Device Type

Interface

DHCP Lease

Present



Paradox IP150

192.168.86.136

00:19:BA:10:AD:50

AlarmPanel

Bridge



Device Configuration

☒ Reserve DHCP IP Address

Name

Inception Demo Case

IP Address

MAC Address

00:11:B9:09:08:61

Device Type

AlarmPanel

Interface

☒ DHCP Lease

☒ Present





Have your say

We want your input to help make the best product possible!

