



CPN Explorer® Extensions

Sophisticated Satellite
Solutions
Version 01



1 Overview

CPN Enclosure:

The CPN Enclosure with built-in Thrane Explorer® satellite terminal has been developed to provide reliable and secure voice, fax and data communication for Condition Monitoring, SCADA, surveillance or office applications, even where no terrestrial network coverage is available!

The CPN Enclosure is a non-metallic enclosure and has Ingress Protection class up to IP 67. Specifically designed for permanent outdoor installations, it shields the Thrane Explorer® from accumulation of dust, debris and water, or the effects of harsh temperatures and weather.

The CPN Enclosure comes with different cable lengths (up to 75m) and is also available with heating or cooling option giving you the opportunity to choose exactly the right Enclosure for your requirements.

Every cable features a breakout box that provides you with a DC input, a Phone/Fax interface (RJ-11) and LAN interface (RJ-45) to connect your router, switch, computer, surveillance camera, PABX, phone and/or fax etc.

CPN Emergency Phone:

The CPN Emergency Phone is a tough Peli® case with built-in Explorer® 300, 500 or 700 satellite terminal that offers you instant communication when traditional networks are down due to outage, disasters or terrorism.

Unlike other satellite based systems the CPN Emergency Phone has been specifically developed to supply satellite communication, even if you need to work indoors.

With the integrated wireless DECT handset, which is permanently charged inside the Peli® case (if connected to power supply), you can communicate up to 700m (outdoor, less distance indoor) away from the CPN Emergency Phone.

The CPN Emergency Phone can permanently be charged via 12V DC, 110V – 240 V AC (50-60 Hz) on your shelf or in your vehicle to be ready for operation anytime.

CPN Charger:

The CPN charger is an universal DC power supply for the Explorer® 300 & Explorer 500® Series.

By default the Explorer® 300 & Explorer® 500 Series are limited to a maximum of 15 V DC input.

Using the Explorer® 300 & Explorer® 500 in rough environments like military use could be a challenge if only 24V DC as a power source is available.

The CPN charger implements the requirements for an universal DC power supply with a DC input range of 9-36 V DC.

Plugging the original Explorer® 300 or Explorer® 500 car charger in a 24 DC power socket of a truck or heavy duty vehicle will cause serious damage to the terminal. As there is mechanically no

difference between power sockets of 12V DC and 24V DC vehicles this is a highly dangerous situation, especially if you have to rely on your communication.

CPN Router:

The CPN Router is an open source based device with a lot more than only the router functionality.

Access: Transparent access to complete private IP subnets behind your BGAN, e.g. remote access, condition monitoring.

Security: VPN Tunneling using only one TCP/IP Port, all other ports are blocked on both remote side AND LES.

Traffic reduction: Only traffic using a single port could be allowed over the satellite in both directions, no unwanted broadcasts or requests from the internet at your costs.

Server functions: FTP or HTTP services available.

Traffic shaping: TCP/IP parameters are set to optimum performance settings.

Network options: 3 Ethernet interfaces, options like 3G/UMTS available.

2 Typical Users

CPN Enclosure:

Data Acquisition / M2M
Disaster Relief
Remote work sites
or any other fixed or semi fixed outdoor installation

CPN Emergency Phone:

First Responders, First Aid Organizations, Fire Fighters, Power authorities, Police

CPN Router:

Media Companies, Remote work sites, Mobile workers, Data Acquisition / M2M

CPN charger:

Military and everybody who needs to charge the Explorer ® 300 and 500 with a 24V DC power socket of a truck or heavy duty vehicle.

3 Testing

CPN Router:

One of the most impressive features of the CPN Router is the build-in traffic reduction. The CPN Router does not only transfer data in a highly secure environment, it also reduces traffic and increases throughput.

4 Further Support and Details

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