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Chapter 3 Safety and Compliance Information

PLEASE READ THE FOLLOWING INFORMATION BEFORE INSTALLATION AND USE.

3.1 Safety Compliance

To ensure operator safety, this satellite modem conforms to the provisions of EMC Low Voltage Directive 2006/95/EC and complies with the following standard:

- EN 62368-1:2014 Edition 2 ó Safety of Information Technology Equipment, Including Electrical Business Equipmentô

Prior to installation and at all points during operation the following points must be observed.

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Chapter 5 Introduction

5.1 Overview

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Note that 1:N backup modems will show additional status information as defined in the document *Installation and Operating Handbo*

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- *Receive modcod*. This is the current receive modulation and FEC rate, which the remote modem varies in accordance with the Es/No being received by the local modem.

ACM operation is described in Section 7.8.14.

6.2.2.5 Status AUPC

The *Automatic Uplink Power Control (AUPC)* section of the *S*

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approaching that of conventional LDPC but with latency nearer to that of TPC. In addition, *FastLink* supports modes (available on

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6.2.4.2 BUC LO Frequency

Range:

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The *Edit->Unit->M&C*

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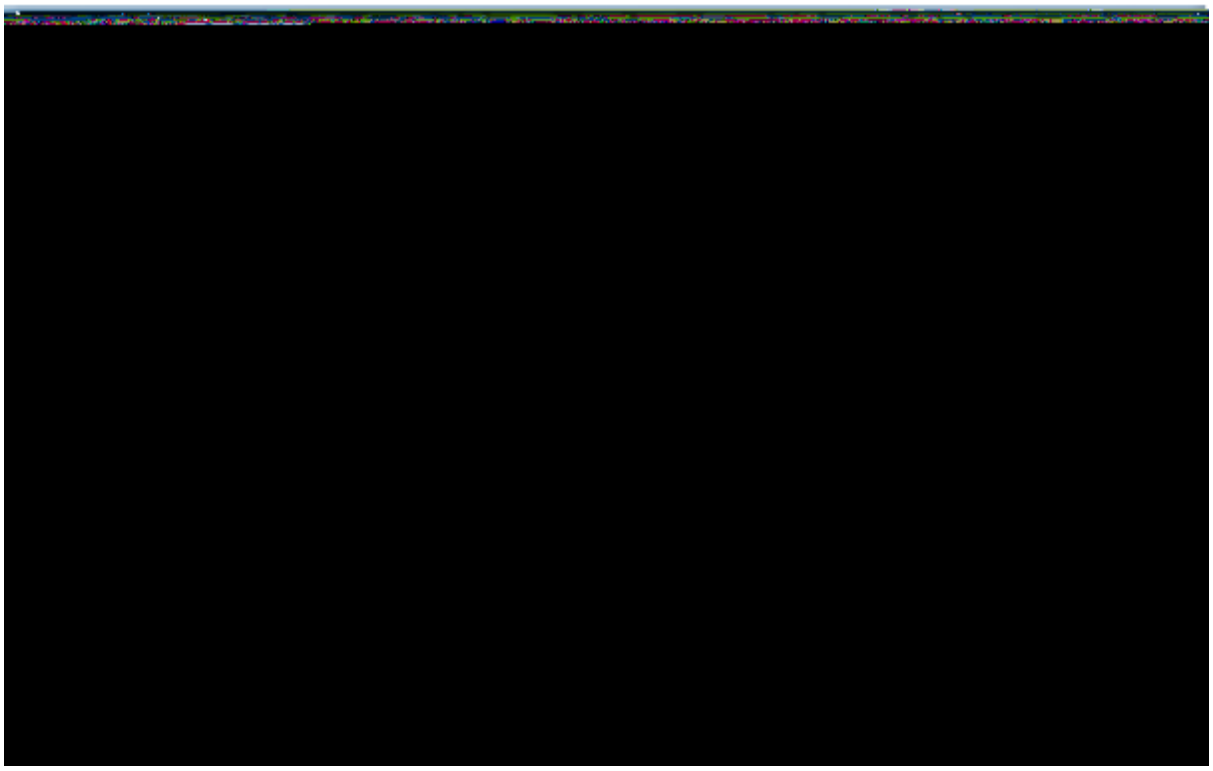

Figure 6-27 Edit->IP Screen

6.2.3.1 IP Mode

Table 6-47 shows the

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6.2.3.9

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to drop by making the buffer smaller

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6.2.4.16 MPEG Over IP Type

UDP/TS

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Figure 6-35 Edit->Memories->Advanced Reversionary Control Screen (Active state)

6.2.9.3 Edit-

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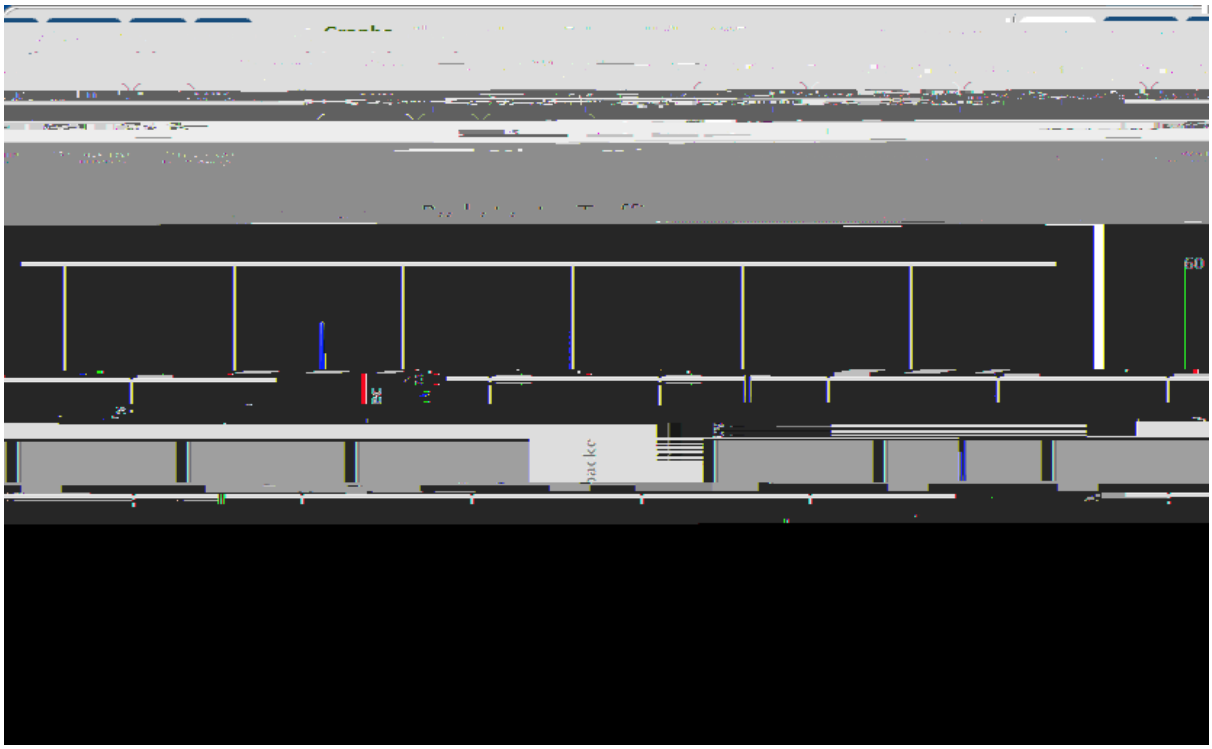

Figure 6-49 IP Throughput Graph

QoS (traffic shaping) graphs are described in Section 7.

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6.3.2 LCD Screen Layout

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Chapter 7

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The implementation involves the use of the G.703 interface card in the modem but the resulting high-stability clock can be used in conjunction with any modem terrestrial interface (such as IP).

The method involves extending a G.703 T1 or E1 timing reference to the remote end of a satellite link, regardless of actual data rate required for th

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Figure 7-8 Modem 1:1 Redundancy System

It is

The SAF function keeps the initial cost of a modem to the minimum and allows simple field upgrading at a later date, as required.

7.5 Software Upgrading

It is possible to update the software and fi.96 T1ware within the modem via the Remote M&C Ethe.96 T connection web use.96 Terface (upgrades via the serial M&C port are not supported). The software upgrade process is described in

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7.8.10.1 IP Address

It is possible to classify a data stream based on either the source and/or the destination addresses in the IP packet as well as

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Configuration of dynamic routing protocols can be complex and for this reason the modem provides only a default configuration for the RIP and OSPF protocols that can be enabled from the

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Once DVB-S2/S2X or *SmartLink* has been enabled, various other configuration menu options become available, including choice of modulation and FEC rate, as well as D

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is also possible to configure the Tx carrier to be switched on and off by the `Sig= Valid In` line (CA) by selecting *Change*, *Tx*, *Modulator*, *Carrier*, *RTS-*

dXTOq0.000008871 0 595.32 842.04 re4reW*nBT/F7 11.04 Tfn 1 279.7 q0 G[(C)15(a)13(r)7(r)7(i)15(e)13(r)]TETOq0.00071 0

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Chapter 11

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DVB-S2:

Inner Forward Error Correction

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12.14 FEC BER/PER Performance

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16APSK R25/36	9.82	5.43	2.745734	9.55	5.26

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The effect of *Link-Local* is to transmit whatever is received over the satellite ESC channel out onto the local modem's M&C bus, while at the same time, transmitting all incoming M&C messages out over the satellite ESC channel.

The effect of *Link-Remote* is to loop back whatever is received over the modem's satellite ESC channel to the modem's M&C port and to transmit over the satellite ESC channel whatever is transmitted by the modem out of its M&C port.

IP to Serial supports the transmission of IP-wrappered RS485 messages through the ESC channel, which are then transmitted as serial messages on the remote RS485 bus.

13.3 Edit->Tx-Rx>Framing->Overhead IBS Screen

The *Edit->Tx-Rx->Framing->Overhead*

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whether Channel Associated Signaling

idle code (data pattern '55'), assuming that the bearer is being looped through the modem and onto other equipment. A Tx CRC alarm will be raised when Tx CRC processing is enabled, and the

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As well as allowing the configuration of each E1 port, these allow the configuration of Mul95.32 84.[(M)-3(xn)13.w PA 1n (an)3(n)13( )36(2n)13( )265(rse)26(dhe)3dLi .32 8on EA (w)5hillPA 3r

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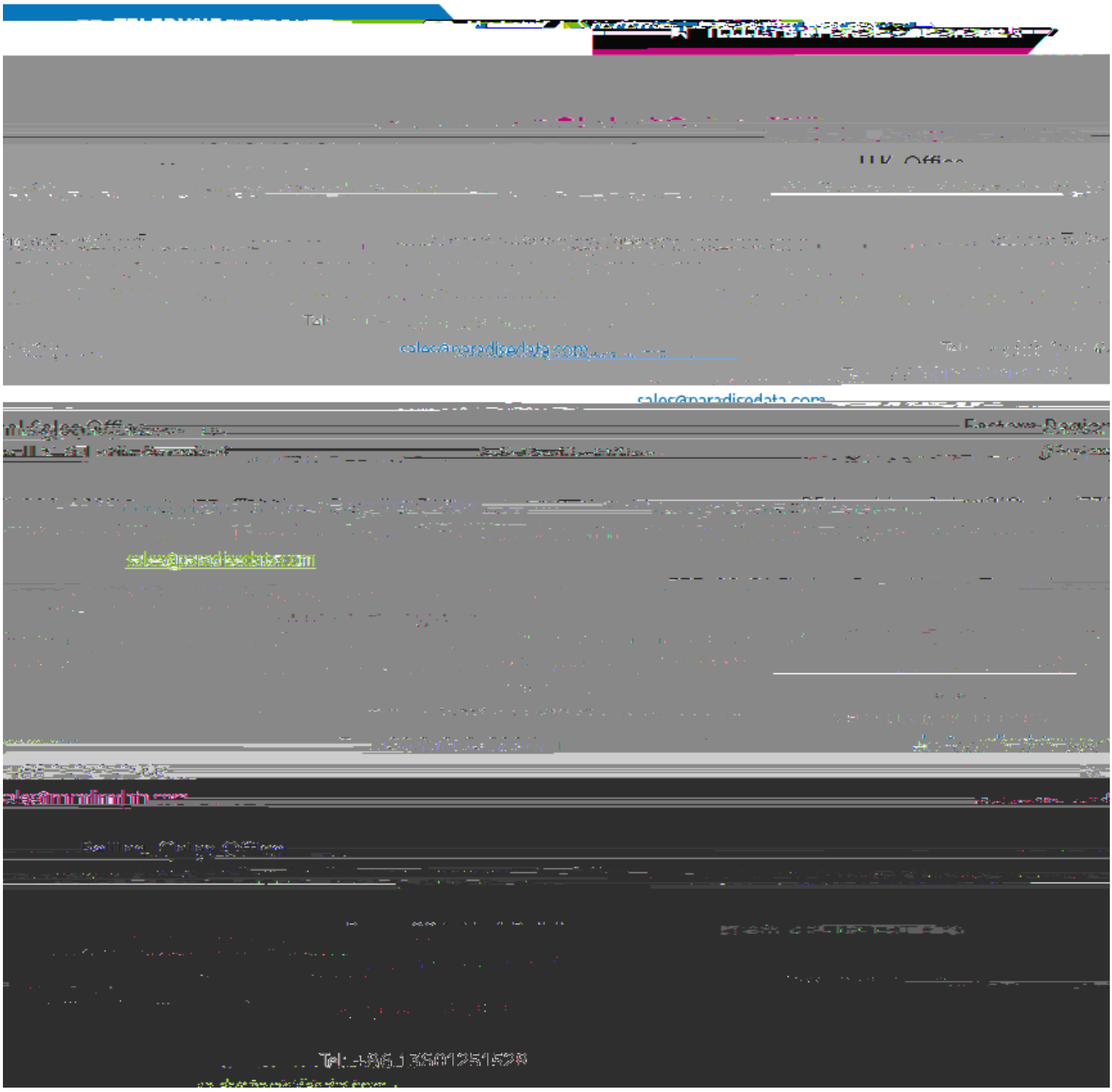
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