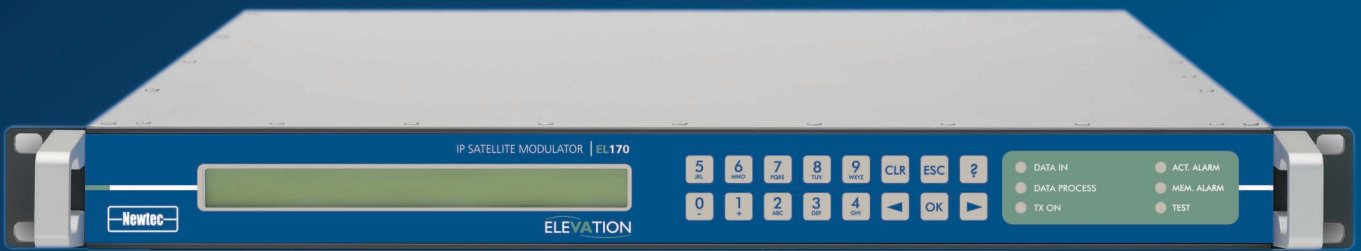


# Quick Reference Guide



Elevation is a family of professional equipment specifically designed to optimize the efficiency and performance of IP applications over satellite.

The Elevation family includes IP modulators, IP demodulators, and IP modems as well as a range of IP appliances that provide a state-of-the-art traffic enhancement and compression capabilities for the IP services.

Elevation devices are native IP products that seamlessly integrate with terrestrial IP networks. They feature standard Ethernet/Gigabit Ethernet interfaces, embedded IP routing and processing functions.

Segment	Modulator	Modem	Demodulator
IP	<b>EL 170</b> IP Satellite Modulator	<b>EL 470</b> IP Satellite Modem	<b>EL 970</b> IP Satellite Demodulator
Modulation	<b>EL 178</b> High Speed IP Sat. Modulator	<b>EL 478</b> High Speed IP Sat. Modem	<b>EL 978</b> High Speed IP Demodulator
Equipment			<b>EL 940</b> IP Satellite Receiver

IP Appliances
<b>EL 810</b> Mobile PEP-Box Terminal
<b>EL 820</b> PEP-Box Terminal
<b>EL 830</b> PEP-Box Gateway
<b>EL 840</b> PEP-Box Server
<b>EL 860</b> ACM Controller, Shaper and Encapsulator (CSE)

**IP Appliances**



EL810 Mobile PEP-Box Terminal



- EL830 PEP-Box Gateway  
- EL840 PEP-Box Server



EL820 PEP-Box Terminal

How to use the product numbers:

→ The two first letters identify the product family (EL for Elevation)

**EL170** Satellite IP Modulator

→ The third digit identifies a variant (example 0 = normal, 8 = high speed)

→ The second digit identifies the type of the device

→ The first digit identifies the function of the device:  
 1 = modulator  
 4 = modem  
 8 = IP appliance  
 9 = demodulator



# Models

## EL170: IP Satellite Modulator

**Applications:** IP trunking, backbone, corporate networks, primary distribution of IPTV, digital cinema, digital signage  
**Key Features:** DVB-S & DVB-S2 - GbE input - IF or L-band output - MPE, ULE or XPE - VCM, ACM and Equalink options – up to 130 Mbit/s

## EL178: High Speed IP Satellite Modulator

**Applications:** IP trunking, backbone, disaster recovery  
**Key Features:** DVB-S2 - GbE input - IF or L-band output - XPE - VCM, ACM and Equalink options – up to 160 Mbit/s

## EL470: IP Satellite Modem

**Applications:** IP trunking, backbone, corporate networks, backhauling, disaster recovery  
**Key Features:** DVB-S & DVB-S2 - GbE input/output - IF or L-band input/output - MPE, ULE or XPE - NoDE - VCM, ACM and Equalink options – up to 130 Mbit/s

## EL478: High Speed IP Satellite Modem

**Applications:** IP trunking, backbone, disaster recovery  
**Key Features:** DVB-S2 - GbE input/output - IF or L-band input/output - XPE - NoDE - VCM, ACM and Equalink options – up to 160 Mbit/s

## EL940: IP Satellite Receiver

**Applications:** IP trunking, corporate networks, backhauling, IPTV, digital cinema, digital signage  
**Key Features:** DVB-S & DVB-S2 - L-band input – GbE output - MPE - Multistream, VCM, ACM – up to 105 Mbit/s

## EL970: IP Satellite Demodulator

**Applications:** IP trunking, corporate networks, backhauling  
**Key Features:** DVB-S & DVB-S2 - IF or L-band input – GbE output - MPE, ULE or XPE – NoDE - Multistream, VCM, ACM – up to 130 Mbit/s

## EL978: High Speed IP Satellite Demodulator

**Applications:** IP trunking, corporate networks, backhauling  
**Key Features:** DVB-S2 - IF or L-band input – GbE output - XPE – NoDE - Multi-stream/VCM, ACM – up to 160 Mbit/s

## EL810: Mobile PEP-Box Terminal

**Applications:** VSAT, mobile and portable VSAT, Corporate, governmental and/or educational networks  
**Key features:** TCP/IP acceleration - traffic compression - VPN security - USB powered - up to 3 Mbit/s

## EL820: PEP-Box Terminal

**Applications:** VSAT, corporate networking, distance education  
**Key features:** TCP/IP acceleration - traffic compression - traffic shaping - VPN security - up to 5 Mbit/s

## EL830: PEP-Box Gateway

**Applications:** IP Trunking, IP backbone, cable restoration  
**Key features:** TCP/IP acceleration - traffic compression - traffic Shaping - VPN security - up to 25 Mbit/s

## EL840: PEP-Box Server

**Applications:** One-Way Internet Access, VSAT, corporate networking, IP Trunking, backbone, cable restoration  
**Key features:** TCP/IP acceleration - traffic compression - traffic shaping - VPN security - up to 25 Mbit/s

## EL860: ACM Controller, Shaper and Encapsulator (CSE)

**Applications:** VSAT, IP trunking, backbone  
**Key features:** ACM controller - traffic shaping - DVB-S2 IP encapsulation (Base-Band frame output)

### Europe

Tel: +32 3 780 65 00

Fax: +32 3 780 65 49

### North-America

Tel: +1 (203) 323-0042

Fax: +1 (203) 323-8406

### South-America

Tel: +55 (11) 2092 6220

Fax: +55 (11) 2092 3756

### Asia-Pacific

Tel: +65 6777 22 08

Fax: +65 6777 08 87

### China

Tel: +86 10-823 18 730

Fax: +86 10-823 18 731

### MENA

Tel: +971 4 390 18 78

Fax: +971 4 368 67 68

### Africa

Tel: +27 11 640 2745

mbr@newtec.eu