SATCOM SCPC Modem

Advanced SCPC Satellite Modem

70/140MHz or L-band, 220V AC, IP, E1, T1, Data RMOD-SCPC-(2-20Mb)*-70/140MHz/L-p3

* 2Mb (optionally expandable to 20Mbps) data rate,



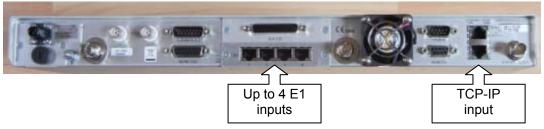
OPTIONS Available:

- Data rate is from 2Mbps to a maximum of 20Mbps.
- 10Msymbol/s maximum for 8PSK (and above) and DVB-S2.
- IBS, IDR, E1/E0 Drop & Insert... 0
- DVB-S2 FEC and modulation support.... 0
- Ethernet. 0
- Various traffic/terrestrial interfaces 0
- AUPC (Automatic Uplink Power control) 0
- Quad(4) E1 cards allowing up to 4 x E1s to be multiplexed onto a single carrier

- IF interfaces include: 70MHz or 140MHz or L-band, and special IF combinations
- **SCPC** (Single Channel per carrier)
- DVB-S2 outbound with SCPC return, or SCPC outbound with DVB-S2 return.
- Or SCPC outbound and return.
- Hybrid mode where Tx/Rx SCPC features are combined with DVB-S2 space segment savings.
- All traditional SCPC features are supported including IBS, IDR, ESC, Drop & Insert, AUPC, etc.
- **48 V DC Power Supply**

Raditek can also offer other state of the art modems to support SCPC with DAMA, ABOD (automatic bandwidth on demand) with MESH and/or STAR networks-all with sophisticated NMC software support.

The Multi-E1/IP option is a very useful way to combine up to 4x E1 (balanced/G.703) inputs or 3XE1 and an IP input, simultaneously, for transmission on one satellite channel. There is no other way to send IP and E1 at the same time on this modem.



Part Number: RMOD-SCPC-(2-20Mb)*-70/140MHz/L-p3

Description: High Performance Satellite Modem: SCPC 70/140MHz or L-band, 220V AC, IP, E1, T1, Data

* 2Mb (optionally expandable to 20Mbps) data rate,

Options Data Rate Simu Carrier **DVBS2 Modulation** SCPC LDPC+

If IP is used, an IP accelerator is recommended, either as an option within the modem or a third party external one. The data rate is limited, otherwise, due to the satellite propagation delay.

The maximum data rate when using the MUX option is limited, at any port to 2Mbps. Without any IP accelerator you may not see data rates above 200Kbps on the IP channel.

All E1 MUX options include: Drop and Insert and full E1 setup. Supports Extended Drop and Insert with 1-31 timeslots Requires IBS/SMS option in 4. the host modem. Modem can easily be 1+1 redundancy protected

RMOD-SCPC-(2-20Mb)-70-140M-L-p3

Specifications may be subject to change

10/01/14

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A. Tel: (408) 266-7404 FAX: (408) 266-4483 E-mail: sales@raditek.com WEB: www.raditek.com







2Mbps (expandable to 20Mbps) data rate, 70 or 140MHz IF, 220V AC.

RMOD-SCPC-2-20Mb-70/140MHz/L-band-p3

Main Specifications

SCPC: BPSK, QPSK, OQPSK, 8PSK (Optionally: 8APSK, 16QAM) **Modulation Scheme**

Or DVB-S2 (Option): QPSK, 8PSK, 16APSK

50 - 90MHz (70MHz) & 100 - 180MHz (140MHz) **IF Frequency Range**

L-band Frequency Range 950 to 2.050MHz

IF Frequency Resolution 100Hz

Traffic Interface - Electrical Ethernet (10/100 BaseT) IP Traffic on RJ45 with link and traffic indicators.

Electronically selectable with other interfaces fitted.

Traffic Interface - Options RS422 including X.21 DCE and DTE emulation,

V.35 and RS232 on EIA530 connector 25 pin female D-type (Option),

EIA530 maximum 10Mbps,

RS232 max 100kbps Serial LVDS 25 pin female D-type (Option) HSSI 50 pin HD

SCSI-2 connector (Option) G.703 balanced on EIA530

G.703 unbalanced on BNC female 75Ω Quad E1 G.703 balanced on RJ45 IP Traffic card 10/100/1000 BaseT on RJ45

Mux option allows a mix of multiple G.703 interfaces plus IP and/or EIA530

traffic with a limit of 2,048kbps per MUX traffic to 4 ports max.

User Traffic Data Rate

SCPC: 4.8kbps - 2,048kbps in base Modem DVB-S2 50kbps – 2,048kbps in base Modem, subject

to minimum symbol rate of 100ksymbol/s

Extension of base operation to 5Mbps (Optionally to 10 and 20Mps)

4.8kbps to 20Mbps no Satellite Overhead (with high Data Rate options)

User Traffic Data Rate Resolution 1bps

Note: The combination of FEC Rate, Modulation scheme and Satellite Overhead limits the Traffic Data Rate Range in all modes.

User Data Rate Range - Closed

Network

User Data Rate Range As Closed Network above except limits inclusive of overhead of approximately 1.4 times the ESC

- Minimum Overhead (Closed Network plus

baud rate. Resolution of 1bps. Supports ESC rate

from 110 baud to >38.4kbaud. ESC)

Outer Forward

Concatenated Intelsat Reed-Solomon

Error Correction

Outer Codec to IESS308/310 with Custom Option offering variable code rate.

Maximum traffic rate 10Mbps.

Scrambling – SCPC Closed Network Plus ESC 32kbps or above: synchronized to ESC overhead. Less than 32kbps: as per closed network, V.35

Scrambler has CCITT, Intelsat, "FDC" and "Linkabit" modes up to 20Mbps (with high Data Rate options)

IF Connector type IF Impedance BNC female $50\Omega \& 75\Omega$, electronically selectable

Return Loss

18dB typical

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Main Specifications						
Internal Frequency Reference - Ageir		pm/yr				
External Reference		cking Only: 1- m±1dB	10MHz in 11	kHz steps. C	Clocking and RF Freq	juency: 10MHz,
BER Performance -Guaranteed dB						
SCPC mode		Rate 1/2	Rate 3/4	Rate 7/8	Rate 2/3	Rate 0.93
Viterbi QPSK	1E-4	4.7 (4.4)	6.1 (5.8)	7.1 (6.8)		
	1E-8 1E-4	7.2 (6.9) 4.3 (4.0)	8.8 (8.5) 5.4 (5.1)	9.5 (9.2) 6.4 (6.1)		
Sequential (64kbps)	1E-8	6.4 (6.1)	7.3 (7.0)	8.6 (8.3)		
Sequential (2048kbps)	1E-4	5.6 (5.3)	6.1 (5.8)	6.9 (6.6)		
Sequential (2040kbps)	1E-8	7.5 (7.2)	8.1 (7.8)	8.4 (8.1)		
Turbo (TPC) QPSK	1E-4 1E-6	2.7 (2.4)	3.5 (3.2)	4.1 (3.8)		6.2 (6.0)
Turbo (TPC) QPSK	1E-8	3.3 (3.0)	4.5 (4.2)	4.5 (4.2)		6.3 (6.0) 6.8 (6.5)
	1E-4	0.0 (0.0)	5.6 (5.3)	6.8 (6.5)		0.0 (0.0)
Turbo (TPC) 8PSK	1E-6					9.2 (8.9)
	1E-8		6.8 (6.3)	7.2 (6.8)		9.9 (9.6)
	1E-3 1E-6		6.5 (6.2)	7.7 (7.4)		10.0 (9.7)
Turbo (TPC) 16QAM	1E-7		7.8 (7.5)	8.2 (7.8)		10.0 (0.1)
	1E-8		, ,	` ,		10.7 (10.4)
8PSK/TCM	1E-3				6.3 (6.0)	
8PSK/TCM + Reed-Solomon (all	1E-8 1E-4				10.4 (10.1) 6.1 (5.8)	
rates)	1E-10				7.3 (7.0)	
Modulator Specifications						
Output Power Level	0 to	–25dBm Cor	ntinuouely V	ariahla in N	1dR etane	
Output Level Stability		-23dBm con 5dB, 0°C to 40		anabie in o.	Tub steps	
Transmit Filtering Selectable		Isat IESS and				
		compliant α = 0.35 α = 0.20				
Occupied Bandwidth		1.2 x Symbol Rate				
Recommended Channel Spacing Phase Accuracy		1.4 x Symbol Rate 1.27 x SR 1.2 x SR ±2° maximum				
Amplitude Accuracy	±2 maximum ±0.2dB maximum					
Carrier Suppression		-30dBc minimum				
Output Phase Noise		As IESS-308, nominally 3dB better.				
Output Frequency Stability Harmonics		<1ppm/yr Better than –55dBc/ 4kHz in band				
Spurious		Better than –55dBc/ 4kHz in band				
Transmit On/Off Ratio	55d	B minimum				
External Transmit Inhibit		By external contact closure or by TTL signal applied to rear panel Alarms & AGC connector				
Adaptive Signal Predistorter Option: Use with 16QAM to reduce HPA backoff to 1.6dB.						

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Demodulator Specifications

Input Range

Maximum Composite Signal

Frequency Acquisition Range

Acquisition Threshold Acquisition Time

Clock Tracking Range Receive Filtering Selectable

Performance Monitoring

AGC Output

-30 to -60dBm

30dB above level to a maximum of 0dBm

Selectable from ±1kHz to ±32kHz up to 10 MSPS (in 1kHz steps)

±10kHz to ±250kHz above 10 MSPS (in 10kHz steps)

<5dB Es/No QPSK

At 9.6kbps, less than 1s at 6dB Es/No QPSK

At 10 Mbps, less than 100ms at 6dB Es/No QPSK

±100ppm minimum

Intelsat IESS compliant α = 0.35, α = 0.25, α = 0.20

Measured Eb/No (range 0-15dB, ±0.2dB). Measured Frequency Offset (100Hz

resolution). Wanted signal level strength indicator centered on the middle of the Rx

Input range.

Buffered direct AGC output for antenna tracking, etc.

Data Rate Specifications				
Modulation/FEC	FEC Rate de facto	Min Data Rate (kbps)	Max Data Rate (Mbps)	
BPSK VIT / SEQ	1/2	4.8	5/2	
BPSK VIT / SEQ	3/4	7.2	7.5 / 2	
BPSK VIT / SEQ	7/8	8.4	8.7 / 2	
BPSK VIT RS	1/2	4.3	4.4	
BPSK VIT RS	3/4	6.4	6.6	
BPSK VIT RS	7/8	7.5	7.7	
O/QPSK VIT / SEQ	1/2	9.6	10 / 2	
O/QPSK VIT / SEQ	3/4	14.4	15 / 2	
O/QPSK VIT / SEQ	7/8	16.8	17.5 / 2	
O/QPSK VIT RS	1/2	8.6	8.8	
O/QPSK VIT RS	3/4	12.8	13.3	
O/QPSK VIT RS	7/8	15	15.5	
O/QPSK TPC	1/2	9.6	10	
O/QPSK TPC	3/4	14.4	15	
O/QPSK TPC	7/8	16.8	17.5	
O/QPSK TPC	0.93	17.9	18.6	
8PSK TCM	2/3	19.2	20	
8PSK TCM RS	2/3	17.7	18.3	
8PSK TPC	3/4	21.6	20	
8PSK TPC	7/8	25.2	20	
8PSK TPC	0.93	26.8	20	
16QAM TPC	3/4	28.8	20	
16QAM TPC	7/8	33.6	20	
16QAM TPC	0.93	35.8	20	

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Clocking and Buffering Specifications

Clock Integrity Frequency Locked Loops give phase-hit immune operation even with poor clock sources such as

routers etc.

Tx Clocking **SCPC** Internal Standard (±1ppm)

Tracking range ±100ppm/min mode External

> Slaves Tx timing from Rx clock. (Includes full asymmetric operation) Rx Clock

Rx Clocking SCPC Buffer Disable Clock from Satellite

mode Tx Input clock Plesiochronous. (Includes full asymmetric operation)

> Standard ±1ppm Internal External timing clock (DTE interface only)

Station Reference (see below)

75Ω BNC female Station Clock Connector, transformer isolated. 1MHz to 10MHz in 1kHz steps Station Reference Inputs

(accepts sinusoidal >0dBm or square-wave e.g. G.703 para 10)

120Ω RS422 compatible input, 1MHz to 10MHz in 1kHz steps via Async ESC connector

NB: When set to 10MHz, the station reference may replace internal reference to all internal circuitry.

Unit automatically switches back to internal reference if station reference fails.

Selectable in 1ms increments from 0ms to 99ms. Automatically adjusted to slip an integer number of **Buffer Size**

terrestrial multi-frame lengths for framed rates. Buffer storage:

Maximum buffer size – 256kbytes.

Drop & Insert Option Specifications

Bearer Types T1-D4. T1-ESF and E1-G.732

Independent selection of arbitrary timeslots for both Drop and Insert. Timeslot Selection

Bearer Generation The terrestrial bearer may be looped through the Drop Mux then Insert Mux, or terminated after the

drop Mux and a new blank bearer generated by the insert Mux. The bearer generated within Insert Mux provides full multi-frame and CRC support and may be generated from the Tx clock, station

reference, satellite clock or internal reference.

In the event that Insert Mux bearer clock is lost, or AIS is supplied, then Insert Mux will switch Bearer Backup

temporarily to bearer generation mode in order to preserve receive traffic. The backup bearer may

be generated from the station reference, satellite clock or internal reference.

Terrestrial CRC Fully supported, with front panel display of terrestrial error rate based on CRC (T1-ESF and G.732)

or Frame Alignment Word errors (all bearer types).

The IBS/SMS or Closed Net Plus ESC overhead maintains the identity of individual Drop/Insert Timeslot ID

timeslots for N=1,2,3,4,5,6,8,10,12,15,16, 20, 24 and 30. (See extended option below).

Extended Drop & Insert Option Specifications

RMOD-SCPC-(2-20Mb)-70-140M-L-p3

Timeslot Re-Ordering Multi-Destination

Selected timeslots may be independently re-ordered on both Tx and Rx paths.

All or only a subset of the received data may be inserted into the terrestrial bearer on the receive

path for multi-destination working.

Timeslot ID Maintenance

The IBS/SMS or Closed Net Plus ESC is extended to maintain the identity of individual timeslots for

Signaling

all values of N from 1 to 31. Both Channel Associated Signaling (CAS) and Robbed Bit Signaling (RBS) are fully supported. For G.732 Drop/Insert, CAS signaling is extracted from terrestrial TS16 and carried over the satellite in

IBS/SMS TS16 and TS48 before re-inserting into the distant terrestrial TS16. For RBS, the IBS or Closed Net Plus ESC overheads maintain the identity of the in-band signaling and it is re-inserted into the terrestrial multi-frame in the correct positions to maintain the RBS.

Specifications may be subject to change

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Ethernet Traffic						
Parameter						
Standard	Base modem will pass UDP to at least 5Mbps (subject to prevailing data rate limits enabled in the					
(unaccelerated)		m) and unaccelerated TCP to typically 128kbps per connection, subject to an overall packet				
,		of 10,000 packets per second.				
PEP (TCP/IP		ance Enhancing Protocol (acceleration) for TCP/IP traffic - overcomes performance				
acceleration) Option	problems associated with TCP over satellite. Maximum throughput on the base Modem10Mbps.					
Traffic mode		ng (standard) for point-to-point operation Brouting (Option) for point-to-multipoint and satellite				
	outbound plus	s nonsatellite return. Mesh network support. User selectable bridge between Ethernet				
51105		d Ethernet M&C port.				
DHCP		Host Control Protocol allows modem IP address to be allocated dynamically from an				
		external DHCP network server.				
Ethernet Header	Compression of Ethernet frame headers at data rates up to 2Mbps. Typically reduces 14 byte					
Compression		Ethernet header to 1 byte.				
IEEE 802.1p/q		Quality of Service supporting the choice of strict priority queuing or fair weighting				
	queuing.	A.M. A.M. source and				
		VLAN support				
		nchronous access to 8kbps IDR ESC. With the Async ESC option, async ESC access				
		the 8kbps IDR ESC is provided giving up to a 9600 baud async channel				
		S and Closed Net Plus ESC facilities as before installation of IDR option, but now on				
Aux Dort		C port on IDR card not shared ESC/Aux port of base unit. 422 (user selectable). Provides clock and data lines.				
Aux Port		ovides 32 or 64kbps access in place of one or both audio ESC channels.				
AUPC Specifications	IDK FIC	ovides 32 of 64kbps access in place of one of both addition ESC charmers.				
Parameter						
	Monitor of dia	tent Eh/Ne and BED only full distant Eh/Ne maintenance. Unidirectional or Di				
Modes of Operation		tor of distant Eb/No and BER only, full distant Eb/No maintenance. Unidirectional or Bi-				
Communication		directional operation.				
	Utilizes asynchronous ESC channel on IBS/SMS,					
Link	IDR and Closed Network plus ESC carriers (ESC from 300 baud, i.e., overheads down to less than					
User Parameters	1%). Maximum data rate 10 Mbps Target Eb/No, positive power offset, negative power offset					
BUC/LNB Facilities	raiget Eb/No	, positive power offset, flegative power offset				
LNB Power (included in modem)		+15/24V 0.5A DC to LNB via Rx IFL				
FSK Option		Allows monitor and control of a compatible				
1 SIC Option		BUC from the modem via the Tx IFL				
10MHz Reference		10MHz output level to BUC: +3dBm (+/-1dBm)				
(via IFL to BUC/LNB)		10MHz output level to LNB: 0dBm (+/-1dBm)				
BUC PSU is optional		BUC PSU Options				
		AC input, 24V 100W DC to Tx BUC (hardware option)				
		AC input, 48V 100W DC to Tx BUC (hardware option)				
		AC input, 24V 200W DC to Tx BUC (hardware option)				
		AC input, 48V 200W DC to Tx BUC (hardware option) AC input, 48V 200W DC to Tx BUC (hardware option)				
		70 liput, 70 v 200 v DO to 1x DOO (lialuwale option)				

RMOD-SCPC-(2-20Mb)-70-140M-L-p3

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2Mbps (expandable to 20Mbps) data rate, 70 or 140MHz IF, 220V AC. RMOD-SCPC-2-20Mb-70/140MHz/L-band-p3

BERT Tester Option Spe	BERT Tester Option Specifications				
BER Channel	The BERT may operate through main traffic, ESC or Aux data channels, or outputted via the				
	terrestrial interface. Use of ESC & Aux data channels allows continuous real traffic BER				
	performance monitoring whilst the modem carries traffic.				
Test Patterns	PRBS 2^N-1: N=6, 7, 9, 11, 15, 19, 20, 23. All 1s, All				
	0s, Alternate Patterns, Sparce Patterns, QRSS, User. Compatible with common stand-alone BER				
Deculto	testers.				
Results Autolog	Display of error count and average BER. Automatic logging of average BER and other parameters at regular intervals.				
General Specifications	Automatic logging of average BEIN and other parameters at regular intervals.				
Loop-backs	Interface Loop (Local and Remote) Framer Loop (Local) RS Loop (Local) FEC Loop (Local)				
Loop-backs	Deframer/Framer Loop (Remote) Internal IF loopback (local, automatically matching Rx IF				
	frequency to Tx)				
Test Modes	Transmit CW (Pure Carrier) Transmit Alternate 1-0 Pattern				
	Wideband spectrum analyzer display EZ Audio: 1kHz test tone on audio channels				
	in IDR and P1348 emulation modes				
Alarm Relays	4 Independent Change-Over Contacts: Unit Fault,				
	Rx Traffic Fault				
	Tx Traffic Fault,				
	Deferred Alarm (backward alarm, BER or Eb/No below user set threshold)				
Controller	Motorola PowerPC				
Embedded Software	Revised embedded software may be downloaded into FLASH memory via Ethernet port with				
	modem remaining in equipment rack.				
Configuration Memories	>20 configurations can be stored and recalled from the front panel or remote M&C. Memories can				
l loor interfece	be labeled with text string to aid identification.				
User Interface	Clear and intuitive operator interface with plain English dialogue (other languages supported). Graphic display, backlit, high contrast, wide angle LCD. 17 key tactile full keyboard.				
Remote Monitor And	For multi-drop applications, RS485 interface. For direct to PC applications, RS232 interface (front				
Control	panel selectable). M&C port may be directly internally linked to ESC port for "over-the-satellite" M&C				
Control	without cabling. Ethernet (10/100 Base T) via RJ45, embedded Web server, SNMP agent V1, V2c				
	and V3				
Redundancy Features	1:1 redundancy controller built in. "Y" cables passively split data maintaining impedances. IF				
	inputs/outputs are passively split/ combined outside the units. Off-line unit tri-states data outputs and				
	mutes Tx carrier.				
Monitor	0-10V analogue output (Signal level, Eb/No, or Rx offset frequency) on Alarms & AGC connector.				
Mechanical	1U chassis – 410mm deep, excluding front panel handles and rear panel connectors and fans.				
Weight	3.5 kg				
Power Supply	100-240VAC, +6%, -10%, 1A @100V, 0.5A @ 240V, 47-63Hz.				
	Fused IEC connector (live and neutral fused), 48 Volta DC ention				
Safety	Fused IEC connector (live and neutral fused). 48 Volts DC option EN60950-1				
EMC	EN55022 Class B (Emissions) EN55082 Part 1 (Immunity)				
Environmental	Operating Temperature Range 0-50°C				
	operating remperature runge of the				

RMOD-SCPC-(2-20Mb)-70-140M-L-p3

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ODU facilities via IF interface

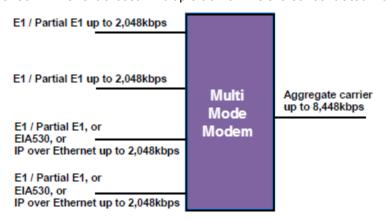
Parameter

FSK Control Option

Allows monitor & control of a compatible Transceiver from the Modem, via the Tx IFL.

A single composite datastream carrying diverse traffic and traffic formats requires just one modem at each site for a point-to-point link — reducing modem count with no reduction in flexibility.

- An RF power amplifier carrying a single carrier may be operated closer to saturation than an amplifier carrying multiple carriers e.g. an SSPA with 2 x carriers must be backed off by 2.5dB more than a single carrier SSPA system (TWTAs require even more back-off!). An SSPA with 3 x carriers requires 3.5dB back-off. The single carrier benefit results in more useable power from a given RF amplifier, therefore requires a smaller RF amplifier than multi-carrier solutions.
- As a result of the above, both hub and remote costs are reduced results in more cost effective solutions for complex systems.
- 1:1 Redundancy protection is available on the combined Modem offers improved reliability for both the modem and multiplexer functions and the 1:1 redundancy controller is included free of charge in the modems.
- More services can be carried simultaneously with no increase in system complexity expandable through software activated feature codes.
- Less hardware means smaller equipment size and less weight makes the Modem ideal for transportable and mobile systems.
- Suitable for both Military and Commercial applications has uses in GSM over Satellite (particularly during migration to IP traffic), Distance Learning, Outside Broadcast Co-ordination, Disaster Recovery and more.
- Offers more services to the user at minimal extra cost multiple traffic links are concentrated into a single carrier.



RMOD-SCPC-(2-20Mb)-70-140M-L-p3

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code -p3

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E1 DATA-MUX option for RMOD-SCPC-5-20Mbps-70MHz-p3 Example

The E1 MUX DATA option is a feature, which is available with 70/140MHz IF or L-band interfaces, and the entire Modem family includes free monitoring tools such as a Spectrum Analyzer, Constellation Monitor, performance graphing versus time up to 1 month in duration, plus full Monitor & Control via Internet Explorer and offers unique features which are both cost effective and easy to use.

Application Examples - GSM, Hybrid Services, Cost/Carrier-Reduction

- GSM over satellite migration from G.703 telephony to IP traffic
- GSM over satellite mixed G.703 plus IP data services
- Mixed G.703 and VoIP telephony streams

EIA530 providing R\$422, X.21 or V.35 IP Traffic over Ethernet via RJ45











E1MUX Data Option