1 A R – M D C S I P – F Z X

AMT-70 SERIES CONFIGURATOR

Special Requirements

A	Laminate with ADV Logo
B	1 PPS Input to Modulator (Satnet)
C	L + 70MHz Rx (U/C + L-Band Tuner)

OPTION "R" REDUNDANCY OPTIONS

0	Not Fitted
1	** Redundant 1:1 ASI
2	Redundant 1:1 RS-530
3	Redundant 1:1 HSSI
4	Redundant 1:12

** For TX Only units

OPTION "M" MODULATOR OPTIONS

0	Not Fitted
A	950 - 1750 MHz
B	950 - 2000 MHz
C	* 70 MHz or 140MHz
D	950 - 2000 MHz and 70/140 MHz
E	70 MHz or 950-2000 MHz
F	140 MHz or 950-2000 MHz
G	Option A + ASI
H	Option B + ASI
J	Option E + ASI
K	Option F + ASI

* Not for future products.
For backward compatibility only

OPTION "D" DEMODULATOR OPTIONS

0	Not Fitted
1	950 - 2150 MHz, 75 Ω
2	950 - 2150 MHz, 50 Ω
3	70 / 140MHz, 50 Ω
4	165A compliant 950 - 2000 MHz, 50 Ω
5	DVB-S2 Demodulator (L Band) 75 Ω
6	DUAL DVB-S2 Demod (L Band) 75 Ω
7	Option 1 + ASI
8	Option 2 + ASI
9	Option 3 + ASI
A	Option 5 + ASI
B	Option 6 + ASI
C	DVB-S2 Demodulator (70MHz)
D	DVB-S2 Demodulator (140MHz)
E	Option C + ASI
F	Option D + ASI

OPTION "I" DATA INTERFACE OPTIONS

0	Interface card Not Fitted - (ASI only)	
A	RS-530 + 1x HSSI	
B	* ASI	
C	1x IBSI	
D	RS-530 + 3 x HSSI + APOC	(Astra 688)
E	RS-530 + 8 x G.703 + 1x IP (40M)	(Centaur 700)
F	ASI + RS530 + 1x HSSI	
G	RS-530 + HSSI + Dopp Buff	(SMC 619-004)
H	RS-530 + HSSI + 2xIP(67M) + APOC	(Aleph 714)
J	* Option H + ASI	
K	IDR/IBS + G703	(IBS/IDR 642)
L	3 x DS3	(Under development)
M	*RS-530 + HSSI + IP(20M)	(SMC+Aero+SW 746)
N	*HSSI + IP(20M)	(SMC+Aero 668)
P	RS530 + 4 x G.703 + IP	(Daisy 770)
Q	RS-530 + HSSI + ASI(Tx)	(SMC 619-005)

OPTION "S" MAXIMUM DATA RATE OPTIONS

1	10 Mbits/s
2	20 Mbits/s
3	52 Mbits/s
4	140 Mbits/s

OPTION "C" MODULATION & FEC CODING OPTIONS

A	INTELSAT	BPSK/QPSK + Viterbi (IESS 308/309)
B	INTELSAT	Option A + RSV (IESS308/309)
C	INTELSAT	Option B + 8PSK + PTCM + RSV(IESS 310)
D	DVB	BPSK/QPSK + RSV (DVB-S EN300421)
E	DVB	Option D + 8PSK + PTCM-RS (DVB-DSNG EN301210)
F	DVB	Option E +16QAM
G	AMT75 DVB-S2	QPSK/8PSK + DVB-S2 EN302307
H	AMT75 only DVB All modes	Option F + Option G
J	Turbo	BPSK/QPSK + eTPC
K	Turbo 8PSK	Option J + 8PSK
L	Turbo 16QAM	Option K +16QAM
M	AMT70 Only	Option C + Option F + Option L
N	AMT73L	(165A) OQPSK/QPSK/8PSK + PTCM-RS + OM73
P	AMT70 Only Turbo 16QAM	Option F + Option L
R	AMT73L Turbo 16QAM	Option N + Option L
S	AMT73L Turbo 8PSK	Option N + Option K
T	AMT75 Only 16APSK	Option H + 16APSK
U	AMT75 Only 32APSK	Option T + 32APSK
V	AMT70 Only	Option C + Option F

OPTION "Z" AUXILIARY OPTIONS

0	Not Fitted
1	Direct TX
2	Group Delay Equalizer
3	Direct TX + Gr Delay Equalizer

OPTION "F" MONITOR & CONTROL OPTIONS

1	Front Panel with Display, Keypad and LED Indicators
2	Front Panel with LED Indicators only
3	Option 1 + Dial-up Modem
4	Option 2 + Dial-up Modem
5	Option 1 + SNMP
6	Option 2 + SNMP
7	Option 1 + Dial-up Modem + SNMP

Note: In OPTION "F", for RX only units, available options are 2 or 6 .

OPTION "P" POWER & REFERENCE OPTIONS

A	AC without BUC PSU or 10MHz Ext Reference In
B	AC with BUC PSU 24V 4A
C	AC with BUC PSU 48V 2A
D	AC with BUC PSU 48V 4A
E	DC -48V
F	AC without BUC PSU + 10MHz Modem Ext Ref In
G	AC with BUC 24V 4A + 10MHz Modem Ext Ref In
H	AC with BUC 48V 2A + 10MHz modem Ext Ref In
J	AC with BUC 48V 4A + 10MHz Modem Ext Ref In
K	DC -48V + 10MHz Modem Ext Ref In
L	DC -48V with passing through BUC 48V 4A

Please Note: The greyed out options have not yet been released from development.

Any "Special Requirements" have to be agreed with engineering before quoting

DESIGN BY N McSparron	DATE	ADVANTECH AMT
DESIGN APPROVAL J Thomson	DATE	AMT-70 MODEM SERIES
MKT APPROVAL G Matthews	DATE	PG 1AR-MDCSIP-FZX
QA APPROVAL	DATE	REV. 11 / p.1 of 1

Figure 2: AMT-70 Family: Products Configuration Options