

Annex1:

Overview of dedicated antenna/cable combinations with Atem Core Module CM11B-01

Output power conducted 15dBm, e.i.r.p. max. 20 dBm

Antenna	Unique antenna connector	Gain dBi	Type of cable	Cable loss	Gain w/ cable losses (max.)	e.i.r.p. (dBm)
ANT-N.B-O-040	Reverse TNC	4	no restriction	0,35	3,65	18,65
ANT-N.B-O-085-01	Reverse TNC	8,5	Cable 1	3,7	4,8	19,8
ANT-RTNC.S-O-022	Reverse TNC	2,2	no restriction	0,35	1,85	16,85
ANT-RSMA.S-O-017	Reverse SMA	1,7	no restriction	0,35	1,35	16,35
ANT-2TNC.B-D-085-04	Reverse TNC	8,5	Cable 2	3,7	4,8	19,8
ANT-TNC.B-D-085-01	Reverse TNC	8,5	Cable 1	3,7	4,8	19,8
ANT-TNC.B-D-085-03	Reverse TNC	8,5	Cable 2	3,7	4,8	19,8
ANT-TNC.B-D-120	Reverse TNC	11,5	Cable 3 or 6	6,85	4,65	19,65
ANT-TNC.B-D-TX060-RX300	Reverse TNC	6	Cable 5	5,95	0,05	15,05
ANT-TNC.KB-O-022-03-0,2m	Reverse TNC	2,2	0,2m fixed	0,53	1,67	16,67
ANT-RTNC.KS-O-040-0,8m	Reverse TNC	4	0,8m fixed	1,07	2,93	17,93
ANT-RTNC.KS-O-050-06-0,8m	Reverse TNC	5	0,8m fixed	1,07	3,93	18,93
ANT-TNC.KS-O-052-03-0,8m	Reverse TNC	5,2	fixed	1,07	4,13	19,13
ANT-TNC.S-O-022-01	Reverse TNC	2,2	none	0	2,2	17,2
Complete Bundles:						
ANT-BRKIT-2km-6m	Reverse TNC	6	Bundle with Cable 5	5,95	0,05	15,05
ANT-BRKIT-6km-20m	Reverse TNC	22,2	Only complete Bundle	17,53	4,67	19,67
ANT-BRKIT-12km-20m	Reverse TNC	24,9	Only complete Bundle	20,23	4,67	19,67
ANT-BRKIT-700m-15m	Reverse TNC	11,5	Bundle with Cable 6	6,85	4,65	19,65
ANT-BRKIT-700m-2*3,5m	Reverse TNC	8,5	Bundle with Cable 1	3,7	4,8	19,8
ANT-BRKIT-700m-2*7m	Reverse TNC	8,5	Bundle with Cable 2	3,7	4,8	19,8
ANT-BRKIT-700m-3,5m	Reverse TNC	8,5	Bundle with Cable 1	3,7	4,8	19,8
ANT-BRKIT-700m-7m	Reverse TNC	11,5	Bundle with Cable 2	3,7	4,8	19,8

Cable 1) 3,5m RG58 plus Adapter from ComCard to e.g. TNC or longer cable with higher loss.

$$3,5m \cdot 0,9dB/m + 0,35dB = 3,5dB$$

Cable 2) 7m RG213 plus Adapter from ComCard to e.g. TNC or longer cable with higher loss.

$$7m \cdot 0,45dB/m + 0,35dB = 3,5dB$$

Cable 3) 7m RG58 plus Adapter from ComCard to e.g. TNC or longer cable with higher loss.

$$7m \cdot 0,9dB/m + 0,35dB = 6,65dB$$

Cable 4) 1m RG58 plus Adapter from ComCard to e.g. TNC or longer cable with higher loss.

$$1,30m \cdot 0,9dB/m + 0,35dB = 1,52dB$$

Cable 5) 6m RG213 plus Adapter from ComCard to e.g. TNC or longer cable with higher loss.

$$6m \cdot 0,45dB/m + 0,35dB = 6,65dB$$

Cable 6) 15m RG213 plus Adapter from ComCard to e.g. TNC or longer cable with higher loss.

$$15m \cdot 0,45dB/m + 0,35dB = 7,1dB$$

Cable type loss dB/m

RG178B/U 2,3

RG316/U 1,5

RG58C/U 0,9

RG213/U 0,45

RG8/U 0,23

Ecoflex 10 0,236

Transmit 12,57

(ANT-BRKIT-6km-20m)

Attenuation 15,27

(ANT-BRKIT-12km-20m)

Adapter

CC-RTNC 15cm 0,35

Connector 0,1