

Decoder Brand	Decoder Model	List price RRP (local currency)	Comparison in USD	Number of outputs	\$US COST per output	Power delivery ability	With Cobalt Classic & Cobalt Ω Omega	Use with Cobalt iP?	Comment after testing
DCCconcepts	AD-2fx	AU 22.95	20.31	2	10.15	350mA	OK with full crossover or scissors!	YES, best value, best performance and best features!	Designed from DAY 1 to have the best performance among stall decoders. Best usability and highest feature level!
DCCconcepts	AD-8fx	AU 79.95	70.75	8	8.84	350mA	OK with full crossover or scissors!	YES, best value, best performance and best features!	Designed from DAY 1 to have the best performance among stall decoders. Best usability and highest feature level!
DCCconcepts	AD1-HP	AU 14.95	13.23	1	13.23	300mA	OK with full crossover or scissors!	YES, for a 1x install... but Cobalt-iP Digital would be best choice!	Designed for multiple Original Cobalt use (ie full scissors crossing change) as well as Beta iP testing, fulgurex, Lemaco, Tillig etc

**THESE accessory decoders are 3-wire solenoid types, but work with ALL Cobalt if the low cost DCCconcepts SDC adapters are added to each output.**

Hornby	R8247	UK 39.99	64.38	4	16.10	Use with DCCconcepts SDC adapters	Plenty of power	OK if already owned, but better to buy the correct <b>AD</b> decoder!	Designed for solenoids - BUT... set it to about 3 seconds on-time, it will work when used with the DCCconcepts SDC adapter
MRC	1628	US 72.95	72.95	4	18.24	Use with DCCconcepts SDC adapters	Plenty of power	OK if already owned, but better to buy the correct <b>AD</b> decoder!	Designed for solenoids - BUT... set it to about 3 seconds on-time, it will work when used with the DCCconcepts SDC adapter
Gaugemaster	DCC30	UK 59.95	96.52	4	24.13	Use with DCCconcepts SDC adapters	Plenty of power	OK if already owned, but better to buy the correct <b>AD</b> decoder!	Designed for solenoids - BUT... set it to about 3 seconds on-time, it will work when used with the DCCconcepts SDC adapter
Lenz	LS150	UK 49	78.89	6	13.15	Use with DCCconcepts SDC adapters	Plenty of power	OK if already owned, but better to buy the correct <b>AD</b> decoder!	Designed for solenoids - BUT... set it to about 3 seconds on-time, it will work when used with the DCCconcepts SDC adapter
Lenz	LS100	UK 72	115.92	4	28.98	Use with DCCconcepts SDC adapters	Plenty of power	OK if already owned, but better to buy the correct <b>AD</b> decoder!	Designed for solenoids - BUT... set it to about 3 seconds on-time, it will work when used with the DCCconcepts SDC adapter
ESU	51820	UK 30.5	49.11	4	12.28	Use with DCCconcepts SDC adapters	Plenty of power	OK if already owned, but better to buy the correct <b>AD</b> decoder!	Designed for solenoids - BUT... set it to about 3 seconds on-time, it will work when used with the DCCconcepts SDC adapter

**Accessory decoders below are NOT recommended for ANY Cobalt use & are NOT usable with Cobalt Classic Ω or Cobalt iP**

Decoder Brand	Decoder Model	List price RRP (local currency)	Comparison in USD	Number of outputs	COST per output	Power delivery ability	With Cobalt Classic & Cobalt Ω Omega	Use with Cobalt iP?	Comment after testing
DCCconcepts	AD-1	AU 14.95	13.23	1	13.23	50mA	OK with 1~2	NOT usable	Designed for the original Cobalt ONLY. ALSO really effective for multiple tortoise too
DCCconcepts	AD-4	AU 54.95	48.63	4	12.16	50mA	OK with 1~2	NOT usable	Designed for the original Cobalt ONLY. ALSO really effective for multiple tortoise too
Digitrax	DS52	US 24.95	24.95	2	12.48	15~20mA	Marginal	NOT usable	low cost design, underpowered
Digitrax	DS44	US 39.99	39.99	4	10.00	15~20mA	Marginal	NOT usable	Tends to overheat at anything above 15mA
Digitrax	DS64	US 59.95	59.95	4	14.99	15~20mA	No go (see note)	Not recommended	No go without pull-up resistors added
NCE	Switch-it	US 29.95	29.95	2	14.98	20~25mA	OK with 1	Not recommended	Marginal with two
NCE	Switch 8	US 69.95	69.95	8	8.74	15~20mA	Marginal	NOT usable	NO switch ability built in
Wangrow	SM-104	US N/A		4	0.00	more than 100mA	OK with multiple	OK with several	What a shame - It is by far the best of the US made accessory decoders power-wise, but it is no longer available...
DCCspecialities	Wabbit	US 29.95	29.95	2	14.98	~20mA	Marginal	Not recommended	inadequate power ability
DCCspecialities	Wabbit FB	US 34.95	34.95	2	17.48	~20mA	Marginal	Not recommended	inadequate power ability
DCCspecialities	Hare	US 29.95	29.95	1	29.95	~20mA	Marginal	Not recommended	inadequate power ability
DCCspecialities	Hare 2 FB	US 34.95	34.95	1	34.95	~20mA	Marginal	Not recommended	inadequate power ability
CML Electronics	DAC-20	UK 65	104.65	8	13.08		No go (see note)	Not recommended	No go without pull-up resistors added
Team Digital	SMD84	US 99.95	99.95	8	12.49	~8mA	NOT usable	NOT usable	really inadequate power ability