Appendix A: Manufacturer ID codes as assigned by the NMRA

The following Manufacturer ID codes have been assigned by the NMRA Technical Department. Manufacturers not on this list shall apply to the NMRA Technical Department for the assignment of a unique manufacturer ID.

Table 1: Sorted by Company Name

Manufacturer	Binary	Hex	Decimal	Country
Advance IC Engineering	10001	0x11	17	US
AMW	10011	0x13	19	AT
ANE Model Co, Ltd	101101	0x2D	45	TWN
Aristo-Craft Trains	100010	0x22	34	US
Arnold – Rivarossi	10101101	0xAD	173	DE
Atlas Model Railroad Products	1111111	0x7F	127	US
AuroTrains	10101010	0xAA	170	US/IT
Auvidel	1001100	0x4C	76	DE
AXJ Electronics	1101110	0x6E	110	CHN
Bachmann Trains	1100101	0x65	101	US
Benezan Electronics	1110010	0x72	114	ESP
Berros	1111001	0x7A	122	NL
BLOCKsignalling	10010100	0x94	148	UK
Bluecher-Electronic	111100	0x3C	60	DE
Blue Digital	11100001	0xE1	225	POL
Brelec	011111	0x1F	31	BE
BRAWA Modellspielwaren GmbH & Co.	10111010	0xBA	186	DE
Broadway Limited Imports, LLC	100110	0x26	38	US
Capecom	101111	0x2F	47	AU
CML Electronics Limited	1	0x01	1	UK
cmOS Engineering	10000010	0x82	130	AUS
Computer Dialysis France	1101001	0x69	105	FR
Con-Com GmbH	11001100	0xCC	204	AT
csikos-muhely	1111000	0x78	120	HUN
cT Elektronik	1110101	0x75	117	AT
CVP Products	10000111	0x87	135	US
Dapol Limited	10011010	0x9A	154	UK
DCCconcepts	100100	0x24	36	AU
DCC-Gaspar-Electronic	1111100	0x7C	124	HUN
DCC Supplies, Ltd	110011	0x33	51	UK
DCC Train Automation	10010000	0x90	144	UK
Desktop Station	10001100	0x8C	140	JP
Dietz Modellbahntechnik	1110011	0x73	115	DE
Digi-CZ	10011000	0x98	152	CZE
Digirails	101010	0x2A	42	NL
Digital Bahn	1000000	0x40	64	DE
Digitools Elektronika, Kft	1001011	0x4B	75	HUN
Digitrax	10000001	0x81	129	US
Digsight	11110	0X1E	30	CN
Doehler & Haas	1100001	0x61	97	DE
Educational Computer, Inc.	100111	0x27	39	US
Electronik & Model Produktion	100011	0x23	35	SE
Electronic Solutions Ulm GmbH	10010111	0x97	151	DE
Electroniscript, Inc.	1011110	0x5E	94	US
E-Modell	10000101	0x45	69	DE
Frateschi Model Trains	10000000	0x80	128	BRA
Gaugemaster	1000001	0x41	65	UK
Gebr. Fleischmann GmbH & Co.	10011011	0x9B	155	DE

Manufacturer	Binary	Hex	Decimal	Country
GFB Designs	101110	0x2E	46	UK
GooVerModels	1010001	0x51	81	BEL
Haber & Koenig Electronics GmbH (HKE)	1101111	0x6F	111	AT
HAG Modelleisenbahn AG	1010010	0x52	82	CHE
Harman DCC	1100010	0x62	98	UK
Hattons Model Railways	1001111	0x4F	79	UK
Heljan A/S	11100	0x1C	28	DK
Heller Modenlbahn	1000011	0x43	67	DE
HONS Model	1011000	0x58	88	HKG
Hornby Hobbies Ltd	110000	0x30	48	UK
Integrated Signal Systems	1100110	0x66	102	US
Intelligent Command Control	10000101	0x85	133	US
Joka Electronic	110001	0x31	49	DE
JMRI	10010	0x12	18	US
JSS-Elektronic	1010011	0x53	83	DE
KAM Industries	10110	0x16	22	US
KATO Precision Models	101000	0x28	40	JP
Kevtronics cc	1011101	0x5D	93	ZAF
Kreischer Datentechnik	10101	0x15	21	DE
KRES GmbH	111010	0x3A	58	DE
Krois-Modell	110100	0x34	52	AT
Kuehn Ing.	10011101	0x9D	157	DE
LaisDCC	10000110	0x86	134	CHN
Lenz Elektronik GmbH	1100011	0x63	99	DE
LDH	111000	0x38	56	ARG
LGB (Ernst Paul Lehmann Patentwerk)	10011111	0x9F	159	DE
LSdigital	1110000	0x70	112	DE
LS Models Sprl	1001101	0x4D	77	BEL
Massoth Elektronik, GmbH	1111011	0x7B	123	DE
MAWE Elektronik	1000100	0x44	68	CH
MBTronik – PiN GITmBH	11010	0x1A	26	DE
Mistral Train Models	11101	0x1D	29	BE
MoBaTron.de	11000	0x18	24	DE
Model Electronic Railway Group	10100101	0xA5	165	UK
Model Rectifier Corp.	10001111	0x8F	143	US
Modelleisenbahn GmbH (formerly Roco)	10100001	0xA1	161	AT
Möllehem Gårdsproduktion	11111110	0x7E	126	SE
MTB Model	1001000	0x48	72	CZE
MTH Electric Trains, Inc.	11011	0x1B	27	US
MÜT GmbH	1110110	0x76	118	DE
MyLocoSound	1110100	0x74	116	AUS
N&Q Electronics	110010	0x32	50	ESP
NAC Services, Inc	100101	0x25	37	US
Nagasue System Design Office	1100111	0x67	103	JP
NCE Corporation (formerly North Coast Engineering)	1011	0x0B	11	US
New York Byano Limited	1000111	0x47	71	HK
Ngineering	101011	0x2B	43	US
NMRA Reserved (for extended ID #'s)	11101110	0xEE	238	US
Noarail	111111	0x3F	63	AUS
NYRS	10001000	0x88	136	US
Opherline1	1101010	0x6A	106	FR
Passmann	101001	0x29	41	DE
Phoenix Sound Systems, Inc.	1101011	0x6B	107	US
PpP Digital	1001010	0x4A	74	ESP

Manufacturer	Binary	Hex	Decimal	Country
Pojezdy.EU	1011001	0x59	89	CZE
Praecipuus	100001	0x21	33	CA
PRICOM Design	1100000	0x60	96	US
ProfiLok Modellbahntechnik GmbH	1111101	0x7D	125	DE
PSI –Dynatrol	1110	0x0E	14	US
Public Domain & Do-It-Yourself Decoders	1101	0x0D	13	-
QElectronics GmbH	110111	0x37	55	DE
QS Industries (QSI)	1110001	0x71	113	US
Railflyer Model Prototypes, Inc.	1010100	0x54	84	CAN
Railnet Solutions, LLC	1000010	0x42	66	US
Rails Europ Express	10010010	0x92	146	FR
Railstars Limited	1011011	0x5B	91	US
Ramfixx Technologies (Wangrow)	1111	0x0F	15	CA/US
Rampino Elektronik	111001	0x39	57	DE
Rautenhaus Digital Vertrieb	110101	0x35	53	DE
RealRail Effects	10001011	0x8B	139	US
Regal Way Co. Ltd	100000	0x20	32	HKG
Rock Junction Controls	10010101	0x95	149	US
Rocrail	1000110	0x46	70	DE
RR-Cirkits	1010111	0x57	87	US
S Helper Service	10111	0x17	23	US
Sanda Kan Industrial, Ltd.	1011111	0x5F	95	HKG
Shourt Line	1011010	0x5A	90	US
SLOMO Railroad Models	10001110	0x8E	142	JP
Spectrum Engineering	1010000	0x50	80	US
SPROG-DCC	101100	0x2C	44	UK
T4T – Technology for Trains GmbH	10100	0x14	20	DE
Tam Valley Depot	111011	0x3B	59	US
Tams Elektronik GmbH	111110	0x3E	62	DE
Tawcrafts	1011100	0x5C	92	UK
TCH Technology	110110	0x36	54	US
Team Digital, LLC	11001	0x19	25	US
Tehnologistic (train-O-matic)	1001110	0x4E	78	ROM
The Electric Railroad Company	1001001	0x49	73	US
Throttle-Up (Soundtraxx)	10001101	0x8D	141	US
Train Control Systems	10011001	0x99	153	US
Train ID Systems	10001010	0x8A	138	US
TrainModules	111101	0x3D	61	HUN
Train Technology	10	0x02	2	BE
TrainTech	1101000	0x68	104	NL
Trenes Digitales	1100100	0x64	100	ARG
Trix Modelleisenbahn	10000011	0x83	131	DE
Uhlenbrock GmbH	1010101	0x55	85	DE
Umelec Ing. Buero	10010011	0x93	147	CH
Viessmann Modellspielwaren GmbH	1101101	0x6D	109	DE
Wm. K. Walthers, Inc.	10010110	0x96	150	US
W. S. Ataras Engineering	1110111	0x77	119	US
Wangrow Electronics	1100	0x0C	12	US
Wekomm Engineering, GmbH	1010110	0x56	86	DE
WP Railshops	10100011	0xA3	163	CA
Zimo Elektronik	10010001	0x91	145	AT
ZTC	10000100	0x84	132	UK

Table 2: Sorted by Decimal ID Number

Manufacturer	Binary	Hex	Decimal	Country
CML Electronics Limited	1	0x01	1	UK
Train Technology	10	0x02	2	BE
NCE Corporation (formerly North Coast Engineering)	1011	0x0B	11	US
Wangrow Electronics	1100	0x0C	12	US
Public Domain & Do-It-Yourself Decoders	1101	0x0D	13	-
PSI –Dynatrol	1110	0x0E	14	US
Ramfixx Technologies (Wangrow)	1111	0x0F	15	CA/US
Advance IC Engineering	10001	0x11	17	US
JMRI	10010	0x12	18	US
AMW	10011	0x13	19	AT
T4T – Technology for Trains GmbH	10100	0x14	20	DE
Kreischer Datentechnik	10101	0x15	21	DE
KAM Industries	10110	0x16	22	US
S Helper Service	10111	0x17	23	US
MoBaTron.de	11000	0x18	24	DE
Team Digital, LLC	11001	0x19	25	US
MBTronik – PiN GITmBH	11010	0x1A	26	DE
MTH Electric Trains, Inc.	11011	0x1B	27	US
Heljan A/S	11100	0x1C	28	DK
Mistral Train Models	11101	0x1D	29	BE
Digsight	11110	0X1E	30	CN
Brelec	11111	0x1F	31	BE
Regal Way Co. Ltd	100000	0x20	32	HKG
Praecipuus	100001	0x21	33	CA
Aristo-Craft Trains	100010	0x22	34	US
Electronik & Model Produktion	100011	0x23	35	SE
DCCconcepts	100100	0x24	36	AU
NAC Services, Inc	100101	0x25	37	US
Broadway Limited Imports, LLC	100110	0x26	38	US
Educational Computer, Inc.	100111	0x27	39	US
KATO Precision Models	101000	0x28	40	JP
Passmann	101001	0x29	41	DE
Digirails	101010	0x2A	42	NL
Ngineering	101011	0x2B	43	US
SPROG-DCC	101100	0x2C	44	UK
ANE Model Co, Ltd	101101	0x2D	45	TWN
GFB Designs	101110	0x2E	46	UK
Capecom	101111	0x2F	47	AU
Hornby Hobbies Ltd	110000	0x30	48	UK
Joka Electronic	110001	0x31	49	DE
N&Q Electronics	110010	0x32	50	ESP
DCC Supplies, Ltd	110011	0x33	51	UK
Krois-Modell	110100	0x34	52	AT
Rautenhaus Digital Vertrieb	110101	0x35	53	DE
TCH Technology	110110	0x36	54	US
QElectronics GmbH	110111	0x37	55	DE
LDH	111000	0x38	56	ARG
Rampino Elektronik	111001	0x39	57	DE
KRES GmbH	111010	0x3A	58	DE
Tam Valley Depot	111011	0x3B	59	US
Bluecher-Electronic	111100	0x3C	60	DE
TrainModules	111101	0x3D	61	HUN
Tams Elektronik GmbH	111110	0x3E	62	DE

Manufacturer	Binary	Hex	Decimal	Country
Noarail	111111	0x3F	63	AUS
Digital Bahn	1000000	0x40	64	DE
Gaugemaster	1000001	0x41	65	UK
Railnet Solutions, LLC	1000010	0x42	66	US
Heller Modenlbahn	1000011	0x43	67	DE
MAWE Elektronik	1000100	0x44	68	CH
E-Modell	1000101	0x45	69	DE
Rocrail	1000110	0x46	70	DE
New York Byano Limited	1000111	0x47	71	HK
MTB Model	1001000	0x48	72	CZE
The Electric Railroad Company	1001001	0x49	73	US
PpP Digital	1001010	0x4A	74	ESP
Digitools Elektronika, Kft	1001011	0x4B	75	HUN
Auvidel	1001100	0x4C	76	DE
LS Models Sprl	1001101	0x4D	77	BEL
Tehnologistic (train-O-matic)	1001110	0x4E	78	ROM
Hattons Model Railways	1001111	0x4F	79	UK
Spectrum Engineering	1010000	0x50	80	US
GooVerModels	1010001	0x51	81	BEL
HAG Modelleisenbahn AG	1010010	0x52	82	CHE
JSS-Elektronic	1010011	0x53	83	DE
Railflyer Model Prototypes, Inc.	1010100	0x54	84	CAN
Uhlenbrock GmbH	1010101	0x55	85	DE
Wekomm Engineering, GmbH	1010110	0x56	86	DE
RR-Cirkits	1010111	0x57	87	US
HONS Model	1011000	0x58	88	HKG
Pojezdy.EU	1011001	0x59	89	CZE
Shourt Line	1011010	0x5A	90	US
Railstars Limited	1011011	0x5B	91	US
Tawcrafts	1011100	0x5C	92	UK
Kevtronics cc	1011101	0x5D	93	ZAF
Electroniscript, Inc.	1011110	0x5E	94	US
Sanda Kan Industrial, Ltd.	1011111	0x5F	95	HKG
PRICOM Design	1100000	0x60	96	US
Doehler & Haas	1100001	0x61	97	DE
Harman DCC	1100010	0x62	98	UK
Lenz Elektronik GmbH	1100011	0x63	99	DE
Trenes Digitales	1100100	0x64	100	ARG
Bachmann Trains	1100101	0x65	101	US
Integrated Signal Systems	1100110	0x66	102	US
Nagasue System Design Office	1100111	0x67	103	JP
TrainTech	1101000	0x68	104	NL
Computer Dialysis France	1101001	0x69	105	FR
Opherline1	1101010	0x6A	106	FR
Phoenix Sound Systems, Inc.	1101011	0x6B	107	US
Viessmann Modellspielwaren GmbH	1101101	0x6D	109	DE
AXJ Electronics	1101110	0x6E	110	CHN
Haber & Koenig Electronics GmbH (HKE)	1101111	0x6F	111	AT
LSdigital	1110000	0x70	112	DE
QS Industries (QSI)	1110001	0x71	113	US
Benezan Electronics	1110010	0x72	114	ESP
Dietz Modellbahntechnik	1110011	0x73	115	DE
MyLocoSound	1110100	0x74	116	AUS
cT Elektronik	1110101	0x75	117	AT
MÜT GmbH	1110110	0x76	118	DE

Manufacturer	Binary	Hex	Decimal	Country
W. S. Ataras Engineering	1110111	0x77	119	US
csikos-muhely	1111000	0x78	120	HUN
Berros	1111001	0x7A	122	NL
Massoth Elektronik, GmbH	1111011	0x7B	123	DE
DCC-Gaspar-Electronic	1111100	0x7C	124	HUN
ProfiLok Modellbahntechnik GmbH	1111101	0x7D	125	DE
Möllehem Gårdsproduktion	1111110	0x7E	126	SE
Atlas Model Railroad Products	1111111	0x7F	127	US
Frateschi Model Trains	10000000	0x80	128	BRA
Digitrax	10000001	0x81	129	US
cmOS Engineering	10000010	0x82	130	AUS
Trix Modelleisenbahn	10000011	0x83	131	DE
ZTC	10000100	0x84	132	UK
Intelligent Command Control	10000101	0x85	133	US
LaisDCC	10000110	0x86	134	CHN
CVP Products	10000111	0x87	135	US
NYRS	10001000	0x88	136	US
Train ID Systems	10001010	0x8A	138	US
RealRail Effects	10001011	0x8B	139	US
Desktop Station	10001100	0x8C	140	JP
Throttle-Up (Soundtraxx)	10001101	0x8D	141	US
SLOMO Railroad Models	10001110	0x8E	142	JP
Model Rectifier Corp.	10001111	0x8F	143	US
DCC Train Automation	10010000	0x90	144	UK
Zimo Elektronik	10010001	0x91	145	AT
Rails Europ Express	10010010	0x92	146	FR
Umelec Ing. Buero	10010011	0x93	147	CH
BLOCKsignalling	10010100	0x94	148	UK
Rock Junction Controls	10010101	0x95	149	US
Wm. K. Walthers, Inc.	10010110	0x96	150	US
Electronic Solutions Ulm GmbH	10010111	0x97	151	DE
Digi-CZ	10011000	0x98	152	CZE
Train Control Systems	10011001	0x99	153	US
Dapol Limited	10011010	0x9A	154	UK
Gebr. Fleischmann GmbH & Co.	10011011	0x9B	155	DE
Kuehn Ing.	10011101	0x9D	157	DE
LGB (Ernst Paul Lehmann Patentwerk)	10011111	0x9F	159	DE
Modelleisenbahn GmbH (formerly Roco)	10100001	0xA1	161	AT
WP Railshops	10100011	0xA3	163	CA
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AuroTrains	10101010	0xAA	170	US/IT
Arnold – Rivarossi	10101101	0xAD	173	DE
BRAWA Modellspielwaren GmbH & Co.	10111010	0xBA	186	DE
Con-Com GmbH	11001100	0xCC	204	AT
Blue Digital	11100001	0xE1	225	POL
NMRA Reserved (for extended ID #'s)	11101110	0xEE	238	US